

JVC

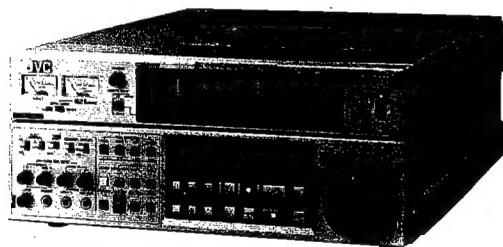
SERVICE MANUAL

VIDEO CASSETTE RECORDER

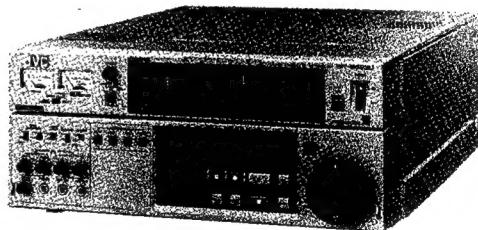
[SUPPLEMENT]

BR-S822U/BR-S622U/BR-S522U/ BR-S525U

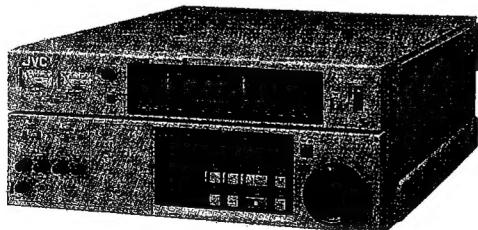
— BR-S822U —



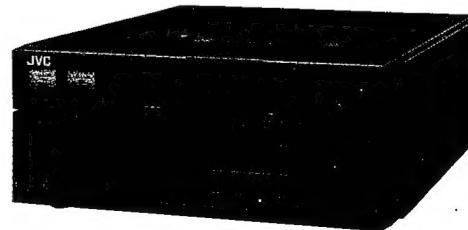
— BR-S622U —



— BR-S522U —



— BR-S525U —



SVHS **SVHSC** **VHS** **VHSC** **Hi-Fi**

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the  symbol and shaded (■) parts are critical for safety.

Replace only with specified part numbers.

Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.

Caution for continued protection against fire hazard.
Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:

- 1) Wires covered with PVC tubing
- 2) Double insulated wires
- 3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:

1) Insulation Tape	3) Spacers	5) Barrier
2) PVC tubing	4) Insulation sheets for transistors	

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

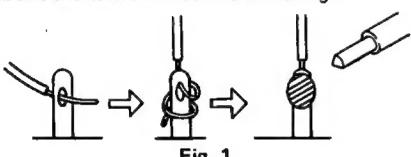


Fig. 1

7. Observe that wires do not contact heat producing parts (heat-sinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10–15 kg of force in any direction will not loosen it.

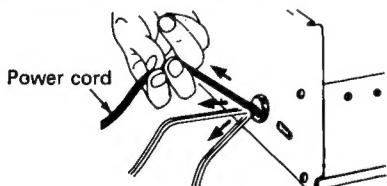


Fig. 2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)

In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector

In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

1) Connector part number : E03830-001

2) Required tool : Connector crimping tool of the proper type which will not damage insulated parts.

3) Replacement procedure

(1) Remove the old connector by cutting the wires at a point close to the connector.

Important : Do not reuse a connector (discard it).



Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

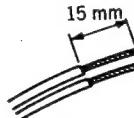


Fig. 4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

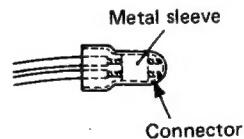


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

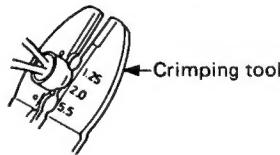


Fig. 6

(5) Check the four points noted in Fig. 7.

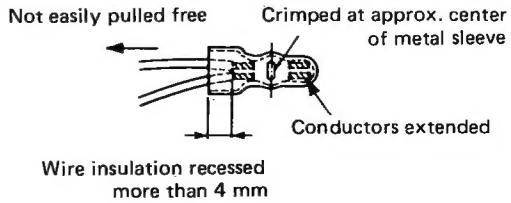


Fig. 7

●Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

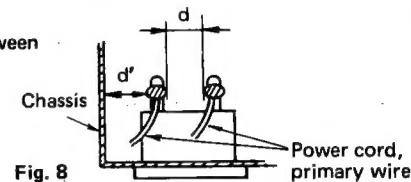


Fig. 8

4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

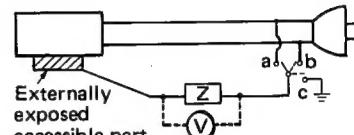


Fig. 9

5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

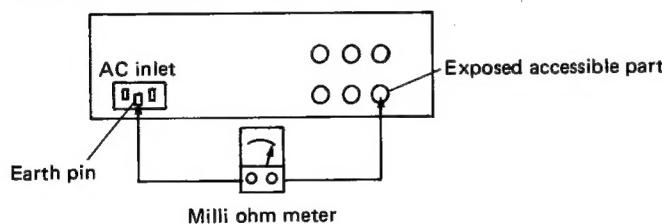


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	$Z \leq 0.1 \text{ ohm}$
Europe & Australia	$Z \leq 0.5 \text{ ohm}$

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	$R \geq 1 \text{ M}\Omega / 500 \text{ V DC}$	AC 1 kV 1 minute	$d, d' \geq 3 \text{ mm}$
100 to 240 V			AC 1.5 kV 1 minute	$d, d' \geq 4 \text{ mm}$
110 to 130 V	USA & Canada	—	AC 900 V 1 minute	$d, d' \geq 3.2 \text{ mm}$
110 to 130 V 200 to 240 V	Europe & Australia	$R \geq 10 \text{ M}\Omega / 500 \text{ V DC}$	AC 3 kV 1 minute (Class II)	$d \geq 4 \text{ mm}$
200 to 240 V			AC 1.5 kV 1 minute (Class I)	$d' \geq 8 \text{ mm (Power cord)}$ $d' \geq 6 \text{ mm (Primary wire)}$

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	$0 - \text{---} - 1 \text{ k}\Omega$	$i \leq 1 \text{ mA rms}$	Exposed accessible parts
110 to 130 V	USA & Canada	$0.15 \mu\text{F} - \text{---} - 1.5 \text{ k}\Omega$	$i \leq 0.5 \text{ mA rms}$	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	$0 - \text{---} - 2 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Antenna earth terminals
		$0 - \text{---} - 50 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1

GENERAL DESCRIPTION

1.1 DETAIL OF ALTERATIONS

Recent products of the BR-S822U/BR-S622U/BR-S522U/BR-S525U have undergone alteration in the mechanism assembly and the FM AUDIO circuit for improvement of the workability and reliability.

The following table shows changes in the main parts with the serial numbers that are subject to the alterations of this time. For changes in exploded views and parts list, refer to the SECTION 5.

Note : This service manual mentions the parts that are changed this time and the replacing procedure of them, etc. Therfore, use this service manual together with the service manuals issued for the respective models.

Service manual No.9246C : BR-S822U, BR-S622U, BR-S522U

Service manual No.9272 : BR-S525U

	BR-S822U BR-S622U	BR-S522U	BR-S525U
Change in mechanism assembly	Main deck	Main deck used in BR-S800/BR-S500 serves in common.	
	Pinch roller solenoid	Peripheral parts of pinch roller, loading motor, etc. are changed. (to improve maintenance efficiency).	
	A/C head	Peripheral parts are changed to reduce off azimuth of A/C head after adjustment.	
	Full erase head	Head base is added with change of main deck.	
	Tension release solenoid	Removed	
	M-CTL/REEL SERVO board assembly	Change of software with removal of tension release solenoid.*1 IC1: Change to PGD30241C-10-9	IC1: Change to PGD30241C-11-13
Change in audio circuit	DECK TERMINAL board assembly	Some parts are removed with removal of tension release solenoid. (CN103, CN104, D101, D102)	
	MOTHER-1 board assembly	PRK10113F-01	PRK10113B-01
	MOTHER-2 board assembly	PRK10111F-01	PRK10111B-02
	AUDIO-3 board assembly	PRK10115A	PRK10115C
	FM AUDIO PRE/REC AMP board assembly	Removed	
	AVM/ONSC board assembly		PRK20089E

*1 : The new software is programmed to avoid tape creep by reducing tape tension when the MENU No. 308/309 (LONG PAUSE) is set to "T.RELEASE".

Table 1-1 Changes in main parts

	BR-S822U	BR-S622U	BR-S522U	BR-S525U
MECHANISM assembly	#3601-	#3401-	#0601-	#1031-
AUDIO circuit	#3291-	#3151-	#0401-	#0931-

Table 1-2 Serial numbers subject to changes by model

SECTION 2

MECHANISM ADJUSTMENT

2.1 CHANGES IN MECHANISM ASSEMBLY

In regard of the mechanism assembly, the mechanism used in the BR-S800U/BR-S500U is partially used in the 22 series, too, in order to improve workability in replacing parts such as the loading motor, pinch roller, etc.

The following table shows the main parts of the mechanism assembly with their standard replacement time.

The parts that are changed this time are shaded in the table.

Besides them, the tension release solenoid and parts related to it are removed in the 22 series. For detail of the exploded view and part numbers, etc., refer to the exploded view in the SECTION 5 and parts list.

	No.	Part Name	Part Number	Standard service period				Description
				1000	2000	3000	4000	
Tape transport system	①	Supply guide shaft	—	★	★	★	★	—
	②	Tension arm ass'y	PRD44024B-02					Refer to the service manual issued before this.
	③	Supply guide roller	PRD43721A					
	④	Full erase head	PGZ01841					Addition of head base.
	⑤	Supply pole base ass'y	PRD30821E					
	⑥	Supply inertia roller	PGZ01667					Refer to the service manual issued before this.
	⑦	Take-up inertia roller	PGZ01667-02	★	★	★	●	
	⑧	Take-up pole base ass'y	PRD30864B					Removing procedure changes with change of A/C head.
	⑨	A/C head	PGZ01840					Change of head arm shape.
	⑩	Take-up guide pole	PRD44151A-01					
	⑪	Guide arm roller ass'y	PRD43404D-04					Refer to the service manual issued before this.
	⑫	Capstan shaft	—	★	★	★	★	
	⑬	Pinch roller arm ass'y	PRD43387A-01	○	●	○	●	Removing and reinstalling procedures change.
	⑭	Drum ass'y	PDV2272D	★	★	○	●	
	⑮	Upper drum ass'y	PRD20380D	●	●	●	(●)	Refer to the service manual issued before this. Note : Carefully remove the drum assembly since there is wiring to the lower drum at the back of the main deck.
Drive system	⑯	Capstan motor	PGZ01535-01-01					
	⑰	Reel motor	PGZ01541A-04					
	⑱	Loading motor	PRD44123A					
	⑲	Loading belt	PRD30022-17 PRD30022-18	●	●	●	●	With change of assembling way, shape of motor bracket assembly, part numbers of solenoid assembly and other parts are changed.
	⑳	Cassette motor	PQ45489A					
	㉑	Supply main brake	PRD43388A-02		●			
	㉒	Take-up main brake	PRD43395A-02		●			
Others	㉓	Take-up sub brake	PRD43479A-01		●			Refer to the service manual issued before this.
	㉔	Brush ass'y (A)/(B)	PRD43986A/B		●		(●)	
	㉕	Slip ring ass'y	PGZ01872	○	●	○	(●)	
	㉖	Head cleaner	PRD40510-01-02	●	●	●	●	—

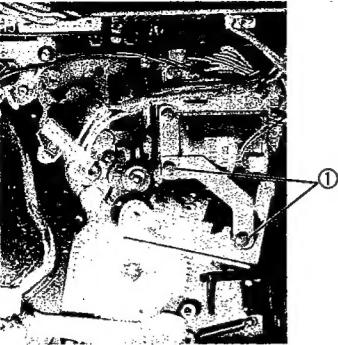
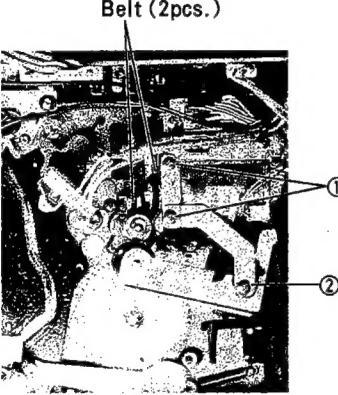
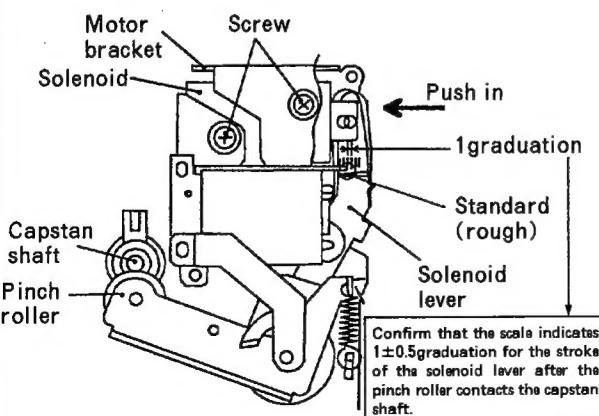
★ =Cleaning. ○ =Check and Replace if necessary, or Check and Clean.

● =Replacement. (●)=Included in Drum assy.

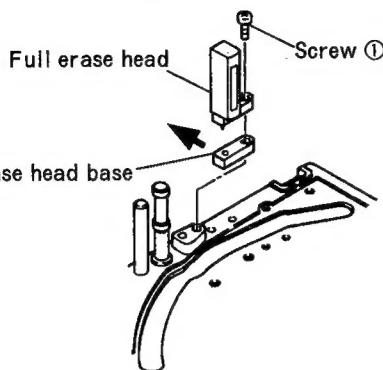
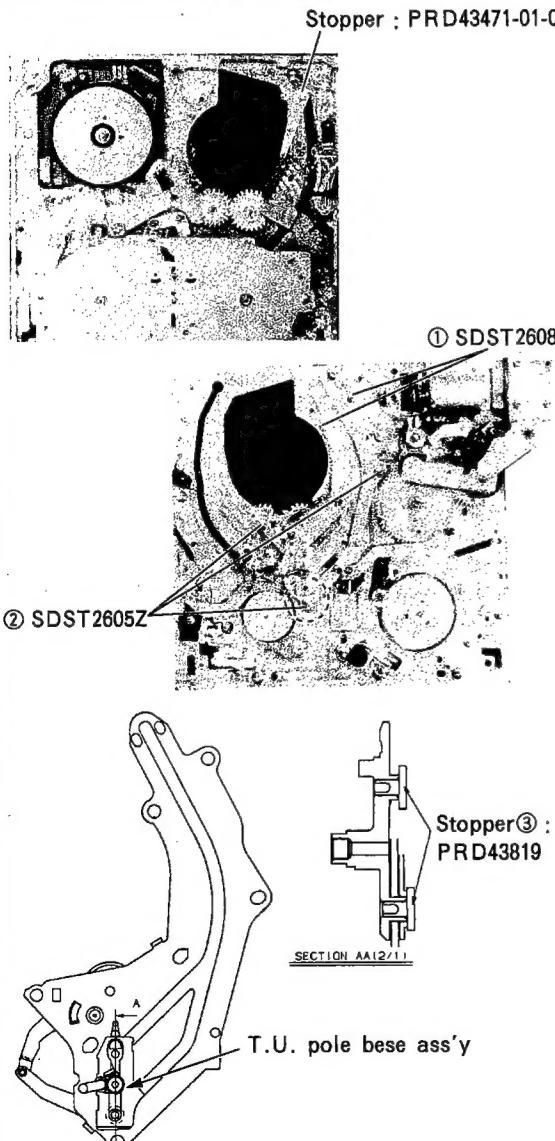
Note : This service manual mentions the parts that are changed this time and the replacing procedure of them, etc. Therefore, use this service manual together with the service manuals issued for the respective models.

No.	Item	Adjustment and Check
1	A/C head (Change) — Removal — <p>Fig. 2-1</p>	<ol style="list-style-type: none"> Tools to prepare: <ul style="list-style-type: none"> Ordinary screwdriver (—) Nut driver : 5.5mm Disconnect the connectors from the A/C HEAD board. Remove the taper nut ① for X-value adjustment. Remove the nut ② and then remove the A/C head together with the head base with care not to lose the spring ③. Remove two screws ④ and a screw ⑤ to remove the A/C head. At that time pay careful attention to the spring ⑥ not to lose it. Unsolder the A/C HEAD board and replace the A/C head with new one.
	— Reinstallation — <p>Fig. 2-2</p>	<ol style="list-style-type: none"> Before assembling the A/C head to the main deck, conduct rough adjustment of the head height as shown in Fig. 2-2. Assemble the A/C head and its peripheral parts to the main deck in the reverse order of the disassembly. When fitting the taper nut, temporarily adjust the height as shown in Fig. 2-3.
	— Check and adjustment —	<p>Note: <i>Before confirming normal tape transport, do not use any alignment tape to prevent it from damage. Make sure to check tape transport with an ordinary recording tape beforehand.</i></p> <p>Fig. 2-3</p> <p>* BR-S522U/BR-S525U need not these adjustments.</p>

Note : This service manual mentions the parts that are changed this time and the replacing procedure of them, etc.
Therefore, use this service manual together with the service manuals issued for the respective models.

No.	Item	Adjustment and Check
2	Pinch roller arm assembly (Change)  Fig. 2-4	<p>Note: Proceed to do the following work in the Assembly mode (see 2.4.1).</p> <ol style="list-style-type: none"> (1) Remove the noise shutter. (BR-S525U only) Note: When installing the noise shutter to the pinch roller assembly, make sure to set the pinch roller assembly to downmost position or remove it. (2) Remove two screws ① and lift the pinch roller arm assembly upward to remove it. (3) When reinstalling, do it so as to position the cam of the pinch roller assembly on the rail of the solenoid bracket in the assembly mode. (4) Assemble the noise shutter to the pinch roller arm assembly. (BR-S525U only)
3	Mode motor (Change)  Fig. 2-5	<ol style="list-style-type: none"> (1) Disengage the belt from the motor pulley. (2) Remove two screws ① and one screw ②, then detach the mode motor together with the motor bracket. (3) Remove two screws fixing the mode motor to the motor bracket to detach the motor from the bracket. (4) Unsolder wires and remove the motor from the board.
4	Pinch roller solenoid position (Addition)  Fig. 2-6	<ol style="list-style-type: none"> (1) Turn the mode motor in the direction of loading (toward the rear side) to set the mechanism in the loading end state. (2) Turn the mode motor further in the same direction (rewardward) to move the pinch roller arm to the downmost position. (3) Press down the solenoid lever moreover while checking that the reading of the stroke from the step (2) to the moreover pressed point is 1 ± 0.5 graduation on the scale located on the solenoid lever. (4) When reading is out of 1 ± 0.5 graduation, loosen the two screws and adjust the solenoid position.

Note : This service manual mentions the parts that are changed this time and the replacing procedure of them, etc.
Therefore, use this service manual together with the service manuals issued for the respective models.

No.	Item	Adjustment and Check
5	<p>Full erase head (Addition)</p>  <p>Fig. 2-4</p>	<ol style="list-style-type: none"> (1) Remove one screw ①. (2) Disconnect wires from the full erase head and then lift the full erase head for removing. (3) Fix the full erase head and the full erase head base to the main deck with the screw ① as shown in the figure. (4) Check that the full erase head and the base are firmly fixed to the main deck. (5) If the full erase head is in unstable setting, slide the full erase head in the direction of the arrow (away from the drum assembly) and fix it again.
6	<p>Pole base assembly (Change)</p>  <p>Fig. 2-5</p>	<ol style="list-style-type: none"> (1) Remove the mechanism ass'y (see 2.3.8). (2) Remove two stoppers ③ and lift the pole base assembly for removing with care of the collar between the pole base and stopper not to lose it. (3) Supply pole base <ol style="list-style-type: none"> ① Turn the loading motor counterclockwise to set the mechanism to the loading end position. ② After removing the stopper, lift the pole base ass'y upward while removing it. (4) Take-up pole base <ol style="list-style-type: none"> ① Remove the A/C head ass'y. ② Remove two screws ① and three screws ②, then take the T.U. loading ass'y away. When removing the screws ②, be careful not to lose spacer. ③ Remove two stoppers ③ and lift the pole base ass'y upward to remove it. (5) For installing the T.U. loading ass'y pay careful attention to the item No.2 of "2.4 Assembling of Mechanism". (6) After replacing the TU pole base, check the following items. <ol style="list-style-type: none"> ① A/C head adjustment (see 2.6.4). ② Tape transport check (see 2.7.1). ③ FM waveform check (see 2.6.2).

SECTION 3

ELECTRICAL ADJUSTMENT

With the change that the FM AUDIO PRE/REC AMP board is incorporated in the AUDIO-3 board, adjustment procedure of the audio circuit is changed to as mentioned below.

Therefore, for adjusting the audio circuit with the new AUDIO-3 board (PRK10115) refer to the procedure mentioned below, while for adjusting the circuit with the old board (PRK10062) refer to the service manual issued previously.

3.1 AUDIO CIRCUIT (BR-S822U/BR-S622U)

Note •All adjustment values are balanced values with 600Ω resistance.

- Turn off the **MEMORY** switch No.201 (DOLBY NR) unless otherwise indicated.
- When using an oscilloscope for observing waveforms, etc., use the 10:1 probe.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
1	AUDIO REC LEVEL VR setting & AUDIO LEVEL METER adjustment	HiFi AUDIO OUT (600Ω terminator)	R87 : 2E (Lch) R88 : 2E (Rch) (AUDIO-2)	1kHz/ -6dBs  HiFi AUDIO IN	E-E	<p>1) Set the AUDIO MONITOR switch to the "Hi-Fi" position.</p> <p>2) Adjust output level at the HiFi AUDIO output terminal to be -6.0dBs with the HiFi REC LEVEL VR.</p> <p>Note For the following adjustment, leave the Hi-Fi AUDIO REC LEVEL VR as it is set in the step 2).</p> <p>3) Reading the AUDIO LEVEL METER head-on, adjust R87(L-ch) and R88(R-ch) so that the meter reads 0.0dB respectively.</p>
		N. AUDIO OUT (600Ω terminator)	-	1kHz/ -6dBs  N. AUDIO IN		<p>1) Set the AUDIO MONITOR switch to the "NORM" position.</p> <p>2) Adjust output level at the N.AUDIO output terminal to be -6.0dBs with the N.AUDIO REC LEVEL VR.</p> <p>Note For the following adjustment, leave the N.AUDIO REC LEVEL VR as it is set in the step 2).</p> <p>3) Read the AUDIO LEVEL METER head-on while confirming that the pointer indicates 0.0 ± 0.5dB. Note: Confirm that level difference between R and L channels is within 0.5dB.</p>
2	Normal Audio playback level	N. AUDIO OUT (600Ω terminator)	R25 : 7E (Lch) R26 : 5E (Rch) (AUDIO-1)	MBA	PB	<p>1) Make sure of the MEMORY switch No.201 (DOLBY NR) being set to "OFF".</p> <p>2) Adjust R25(L-ch) and R26(R-ch) so that each output level is -6.0dBs. Note: Adjust the TRACKING VR to the best tracking position.</p> <p>Note Confirm that the meter pointer does not overshake in the Search FWD/ REV mode.</p>
3	Normal Audio playback frequency response	N. AUDIO OUT (600Ω terminator)	R125 : 6B (Lch) R126 : 5C (Rch) (AUDIO-1)	MH-6	PB	<p>1) Make sure of the MEMORY switch No.201 (DOLBY NR) being set to "OFF".</p> <p>2) With the alignment tape MH-6, confirm that playback level of the 100Hz signal is -0.5dB as against playback level of the 400Hz signal.</p> <p>3) With the same tape used, adjust R125(L-ch) and R126(R-ch) so that playback level of the 10kHz signal is +1.8dB compared with that of the 400Hz signal. Note: Adjust the TRACKING VR to the best tracking position.</p>

- Rated frequency response -

400Hz	100Hz	10kHz
0dB (Reference)	-0.5 ± 2.0 dB	+1.8dB

Note • All adjustment values are balanced values with 600Ω resistance.

• Turn off the **MEMORY** switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
4	Audio bias frequency & level	TP5 : 9C (AUDIO-1) Frequency counter	L405 : 11D (AUDIO-1)	No input signal	REC S-VHS	1) Adjust frequency at TP5 to be 70kHz.
				TP5 : $70 \pm 3\text{kHz}$		
		TP5 : 9C (Lch) TP6 : 4A (Rch) (AUDIO-1) Oscilloscope	T401 : 10G (Lch) T402 : 11E (Rch) (AUDIO-1)	No input signal	REC S-VHS	2) Turn R425 and R426 on the AUDIO1 board full clockwise. In this condition, adjust T401(L-ch) and T402(R-ch) to maximize bias oscillation respectively. (more than 80Vp-p)
			R425 : 10G (Lch) R426 : 10E (Rch) (AUDIO-1)	TP5,TP6 : Maximum		3) Adjust R425 (L-ch) and R426 (R-ch) to obtain 65Vp-p as respective bias levels. <i>Note: The above bias levels may be readjusted later in the Item No.6.</i>
5	Normal Audio REC/PB	N. AUDIO OUT (600Ω terminator)	R7 : 8F (Lch) R8 : 6F (Rch) (AUDIO-1)	1kHz/ -6dBs N. AUDIO IN	REC VHS PB	4) Perform recording without signal input in the VHS mode. 5) Adjust R455(L-ch) and R456(R-ch) to obtain 52Vp-p as respective bias levels. <i>Note: The above bias levels may be readjusted later in the Item No.6.</i>
				Playback level : $-6.0 \pm 0.5\text{dBs}$		
				1kHz/ -6dBs N. AUDIO IN	REC S-VHS PB	4) Record the 1kHz/-6dBs signal and play it back. 5) Confirm that the playback level is $-5.5 \pm 1.0\text{dBs}$.
				Playback level : $-5.5 \pm 1.0\text{dBs}$		

Note • All adjustment values are balanced values with 600Ω resistance.

• Turn off the **MEMORY** switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
6	Normal audio PB frequency response (REC/PB)	N. AUDIO OUT (600Ω terminator)	—	1kHz, 10kHz / -26dBs ↓ N. AUDIO IN	REC S-VHS ↓ PB	<p>1) Make sure of MEMORY switch No.201(DOLBY NR) being set to "OFF".</p> <p>2) Record the 1kHz and 10kHz signals, and play them back.</p> <p>3) Confirm that playback level of the 10kHz signal is -0.5 ± 0.5dB as against that of the 1kHz signal.</p> <p>4) If not, fine adjust the bias levels explained in the previous item, No.4.</p> <p>(a) If the level of the 10kHz signal is higher than the specifications, raise the bias level according to the step 3) of the Item No.4.</p> <p>(b) If the level of the 10kHz signal is lower than the specifications, decline the bias level according to the same step.</p> <p>5) After the bias adjustment, repeat the steps 2) and 4) to meet the specifications.</p>
		- Rated frequency response - (S-VHS NR: "OFF")				
				1kHz 10kHz ↓ N. AUDIO IN		
		0dB (Reference)	-0.5 ± 0.5 dB			
		- Rated frequency response - (S-VHS NR: "ON")				
				1kHz, 12kHz / -26dBs ↓ N. AUDIO IN	REC S-VHS ↓ PB	<p>6) Set the NR switch to "ON", and record the 1kHz and 12kHz signals and play them back.</p> <p>7) Confirm that playback level of the 12kHz signal is 0.0 ± 2.5dB as against that of the 1kHz signal (level difference between R and L channels must be within 3.0dB).</p> <p>8) Return the NR switch to "OFF" position.</p>
		1kHz 12kHz ↓ N. AUDIO IN				
		0dB (Reference)	-0.0 ± 2.5 dB			
		N. AUDIO OUT (600Ω terminator)	—	1kHz, 10kHz / -26dBs ↓ N. AUDIO IN	REC VHS ↓ PB	<p>9) Record the 1kHz and 10kHz signals, and play them back.</p> <p>10) Confirm that playback level of the 10kHz signal is -0.5 ± 0.5dB as against that of the 1kHz signal.</p> <p>11) If not, fine adjust the bias levels explained in the previous item, No.4.</p> <p>(a) If the level of the 10kHz signal is higher than the specifications, raise the bias level according to the step 5) of the Item No.4.</p> <p>(b) If the level of the 10kHz signal is lower than the specifications, decline the bias level according to the same step.</p> <p>12) After the bias adjustment, repeat the steps 9) and 10) to meet the specifications.</p>
		- Rated frequency response - (VHS NR: "OFF")				
				1kHz 10kHz ↓ N. AUDIO IN		
		1kHz 10kHz ↓ N. AUDIO IN				
		0dB (Reference)	-0.5 ± 0.5 dB			
		- Rated frequency response - (VHS NR: "ON")				
				1kHz, 12kHz / -26dBs ↓ N. AUDIO IN	REC VHS ↓ PB	<p>13) Set the NR switch to "ON", and record the 1kHz and 12kHz signals and play them back.</p> <p>14) Confirm that playback level of the 12kHz signal is 0.0 ± 2.5dB as against that of the 1kHz signal (level difference between R and L channels must be within 3.0dB).</p> <p>15) Return the NR switch to "OFF" position.</p>
		1kHz 12kHz ↓ N. AUDIO IN				
		0dB (Reference)	0.0 ± 2.5 dB			

Note •All adjustment values are balanced values with 600Ω resistance.

•Turn off the **MEMORY** switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
7	Full erase frequency	TP403 : 9A (AUDIO-1) ↓ Frequency counter	T405 : 9A (AUDIO-1)	No input signal	REC VHS	1) Adjust T405 so that frequency at TP403 becomes 70kHz.
8	BR-S822U Audio insert erase voltage	TP401 : 9B (AUDIO-1) ↓ Oscilloscope	T403 : 11C (AUDIO-1)	No input signal	AUD-1 INSERT VHS	1) Perform the AUD-1 insert editing. 2) Adjust T403 to maximize erase level at TP401 (more than 200mVp-p). <i>Note: After this adjustment, repeat the AUD-1 insert editing while confirming the erase level being the same as adjusted in the step 2).</i>
		TP402 : 9B (AUDIO-1) ↓ Oscilloscope	T404 : 11B (AUDIO-1)	No input signal	AUD-2 INSERT VHS	3) Perform the AUD-2 insert editing. 4) Adjust T404 to maximize erase level at TP402 (more than 200mVp-p). <i>Note: After this adjustment, repeat the AUD-2 insert editing while confirming the erase level being the same as adjusted in the step 4).</i>
	BR-S622U Audio post-recording erase voltage	TP402 : 9B (AUDIO-1) ↓ Oscilloscope	T404 : 11B (AUDIO-1)	No input signal	AUDIO DUB VHS	1) Perform audio dubbing (postrecording). 2) Adjust T404 to maximize erase level at TP402 (more than 200mVp-p). <i>Note: After this adjustment, repeat the audio dubbing operation while confirming the erase level being the same as adjusted in the step 2).</i>
		TP401 : 9B (AUDIO-1) ↓ Oscilloscope	T403 : 11C (AUDIO-1)	No input signal	REC VHS	3) Adjust T403 to maximize erase level at TP401. <i>Note: After this adjustment, set the deck to the REC mode again while confirming the erase level being the same as adjusted in the step 3).</i>

Note •All adjustment values are balanced values with 600Ω resistance.

•Turn off the **MEMORY** switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
9	BR-S822U Normal audio insert crosstalk cancel	N. AUDIO OUT (600Ω terminator)	R302 : 4D (AUDIO-1)	1kHz/ -6dBs ↓ N. AUDIO	AUD-1 INSERT VHS	<p>1) Perform AUD-1 insert editing with a tape on which no audio signal is recorded.</p> <p>2) Adjust R302 to minimize output level on R-ch. <i>Note: For this adjustment, use a tape on which normal audio signal is not recorded.</i></p>
			R301 : 5D (AUDIO-1)	1kHz/ -6dBs ↓ N. AUDIO	AUD-2 INSERT VHS	<p>3) Perform AUD-2 insert editing with a tape on which no audio signal is recorded.</p> <p>4) Adjust R301 to minimize output level on L-ch. <i>Note: For this adjustment, use a blank tape on which any signal is not recorded.</i></p>
			R320 : 5D L302 : 5C (AUDIO-1)	10kHz/ -6dBs ↓ N. AUDIO IN	AUD-1 INSERT VHS	<p>5) Perform AUD-1 insert editing with a tape on which no audio signal is recorded.</p> <p>6) Adjust R320 and L302 to minimize output level on R-ch. <i>Note: Repeat the above steps 5), 6) and 7), 8) until respective output levels are minimized.</i></p>
			R319 : 6D L301 : 6C (AUDIO-1)	10kHz/ -6dBs ↓ N. AUDIO IN	AUD-2 INSERT VHS	<p>7) Perform AUD-2 insert editing with a tape on which no audio signal is recorded.</p> <p>8) Adjust R319 and L301 to minimize output level on L-ch. <i>Note: Repeat the above steps 5), 6) and 7), 8) until respective output levels are minimized.</i></p>
	BR-S622U Normal audio post-recording crosstalk cancel	N. AUDIO OUT (600Ω terminator)	R301 : 5D (AUDIO-1)	1kHz/ -6dBs ↓ N. AUDIO	AUDIO DUB VHS	<p>1) Perform audio dubbing (postrecording) with a tape on which no audio signal is recorded.</p> <p>2) Adjust R301 to minimize output level on L-ch.</p>
			R319 : 6D L301 : 6C (AUDIO-1)	10kHz/ -6dBs ↓ N. AUDIO IN	AUDIO DUB VHS	<p>3) With the 10kHz/ -6dBs signal input, perform audio dubbing (postrecording).</p> <p>4) Adjust R319 and L301 to minimize output level on L-ch.</p>
10	BR-S822U Normal audio insert bias trap	TP7 : 8E (AUDIO-1) ↓ Oscilloscope	L9 : 7F (AUDIO-1)	No input signal TP7 : Minimum	AUD-2 INSERT VHS	<p>1) Perform AUD-2 (R-ch) insert editing.</p> <p>2) Adjust L9 to minimize bias level (70kHz) at TP7.</p>
		TP8 : 6E (AUDIO-1) ↓ Oscilloscope	L10 : 4F (AUDIO-1)	No input signal TP8 : Minimum	AUD-1 INSERT VHS	<p>3) Perform AUD-1 (L-ch) insert editing.</p> <p>4) Adjust L10 to minimize bias level (70kHz) at TP8.</p>
	BR-S622U Normal audio post-recording bias trap	TP7 : 8E (AUDIO-1) ↓ Oscilloscope	L9 : 7F (AUDIO-1)	No input signal TP7 : Minimum	AUDIO DUB VHS	<p>1) Perform audio dubbing.</p> <p>2) Adjust L9 to minimize bias (70kHz) at TP7.</p>

Note •All adjustment values are balanced values with 600Ω resistance.

•Turn off the **MEMORY** switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
11	BR-S822U Time code bias trap	TP601 : 2B (AUDIO-1) ↓ Oscilloscope	L601 : 3A (AUDIO-1)	No input signal	AUD-1 INSERT VHS	<p>1) Make sure of MEMORY switch No.206(AUD-2//LTC) being set to "LTC".</p> <p>2) Perform AUD-1 insert editing.</p> <p>3) Adjust L601 to minimize level at TP601.</p> <p>4) After the adjustment, return the MEMORY switch to "AUD-2" position.</p>
12	Hi-Fi audio carrier frequency	TP7 (AUDIO-3) ↓ Frequency counter	R29 (AUDIO-3)	No input signal	REC VHS	<p>1) Set the MEMORY switch No.200(HiFi REC) to "ON" position.</p> <p>2) Adjust R29 so that frequency at TP7 becomes $1.300 \pm 0.002\text{MHz}$.</p>
		TP8 (AUDIO-3) ↓ Frequency counter	R30 (AUDIO-3)	No input signal	REC VHS	3) Adjust R30 so that frequency at TP8 becomes $1.700 \pm 0.002\text{MHz}$.
13	Hi-Fi audio FM output level	A-RF terminal (Front panel) ↓ Oscilloscope	R55 (AUDIO-3)	MHAF-3	PB	<p>1) Adjust R55 so that FM output level at the A-RF terminal inside the front panel becomes 100mVp-p.</p> <p>Note: If there is level difference in two channels, adjust the level by the channel having the lower level.</p> <p>Adjust the TRACKING VR to the best tracking position.</p>
14	Hi-Fi audio PB level	HiFi AUDIO OUT (600Ω terminator)	R15 (Lch) R16 (Rch) (AUDIO-3)	MHAF-3 (1kHz)	PB	<p>1) With the alignment tape MHAF-3 being played back, adjust R15(L-ch) and R16(R-ch) so that playback level of the 1kHz signal is -6.0dBs.</p> <p>Note: Adjust the TRACKING VR to the best tracking position.</p>

3.2 AUDIO CIRCUIT (BR-S522U/BR-S525U)

Note • All adjustment values are balanced values with 600Ω resistance.
 • Turn off the memory switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
1	Hi-Fi audio carrier frequency	TP7 (AUDIO-3) ↓ Frequency counter	R29 (AUDIO-3)	—	No cassette	1) Adjust R29 so that frequency at TP 7 becomes $1.300 \pm 0.002\text{MHz}$.
		TP8 (AUDIO-3) ↓ Frequency counter	R30 (AUDIO-3)	—	No cassette	1) Adjust R30 so that frequency at TP 8 becomes $1.700 \pm 0.002\text{MHz}$.
2	Hi-Fi audio PB level	HiFi AUDIO OUT (600Ω terminator)	R15 (Lch) R16 (Rch) (AUDIO-3)	MBAF-3 or MH-F6	PB	1) Set the AUDIO PB LEVEL VR to the preset mode (knob is depressed). 2) Play back the 1kHz segment of the alignment tape MBAF-3 or MH-F6 while adjusting R15(L-ch) and R16(R-ch) to obtain -6.0 dBs as the playback level of the 1kHz signal respectively.
3	HiFi AUDIO LEVEL METER	HiFi AUDIO OUT (600Ω terminator)	R87 : 2E (Lch) R88 : 2E (Rch) (AUDIO-2)	MBAF-3 or MH-F6	PB	1) Set the AUDIO MONITOR switch to the "Hi-Fi" position. 2) Adjust output level at the HiFi AUDIO output terminal to be -6.0 dBs with the HiFi PB LEVEL VR. 3) Reading the AUDIO LEVEL METER head-on, adjust R87(L-ch) and R88(R-ch) so that the meter reads 0.0dB respectively.
4	Hi-Fi audio FM output level	A-RF terminal (Front panel) ↓ Oscilloscope	R55 (AUDIO-3)	MBAF-3	PB	1) Adjust R55 so that FM output level at the A-RF terminal inside the front panel becomes 100mVp-p . <i>Note: If there is channel difference, adjust at the smaller level.</i>
5	Normal Audio playback level	N. AUDIO OUT (600Ω terminator)	R25 : 7E (Lch) R26 : 5E (Rch) (AUDIO-1)	MBA	PB	1) Confirm that the MEMORY switch No. 201 (DOLBY NR) is set to "OFF". 2) Set the AUDIO PB LEVEL VR to the preset mode (knob is depressed). 3) Play back the alignment tape MBA. 4) Adjust R25 (L-ch) and R26 (R-ch) to obtain -6.0 dBs as the output level.
6	Normal Audio playback frequency response	N. AUDIO OUT (600Ω terminator)	R125 : 6B (Lch) R126 : 5C (Rch) (AUDIO-1)	MH-6	PB	1) Make sure of the MEMORY switch No.201 (DOLBY NR) being set to "OFF". 2) With the alignment tape MH-6, confirm that playback level of the 100Hz signal is -0.5dB as against playback level of the 400Hz signal. 3) With the same tape used, adjust R125(L-ch) and R126(R-ch) so that playback level of the 10kHz signal is $+1.8\text{dB}$ compared with that of the 400Hz signal.

- Rated frequency response -

400Hz	100Hz	10kHz
0dB (Reference)	$-0.5 \pm 2.0\text{dB}$	$+1.8\text{dB}$

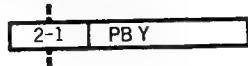
SECTION 4 DIAGRAMS AND CIRCUIT BOARDS

■ FOREWORD

1. Expression of connector

Connector is expressed in two ways.

1) The following illustrates 'CN2 pin 1' for example.



2) The following illustrates 'CN1 pins 1 and 2'.



2. Expression of wiring

As the following circuit diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

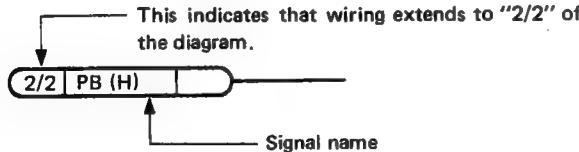
1) Circuit diagram divided into two or more sections:

Board No.	Board Name	Number of divided sections
02	MOTER-2	2 (1/2~2/2)
10	REC/PB Y	2 (1/2~2/2)
12	REC/PB COLOR	2 (1/2~2/2)
19	OUTPUT	2 (1/2~2/2)
21	AUDIO-1	3 (1/3~3/3)
23	AUDIO-3	2 (1/2~2/2)
31	M CTL/REEL SERVO	2 (1/2~2/2)
—	OVERALL	2 (1/2~2/2)

2) Indication of wiring which extends to another section:

(Example)

On the "1/2" diagram of REC/PB Y board, such an indication as the following is found on the "PB (H)" signal line.



In the above case, the end of the wiring is connected to the "2/2-PB (H)" on the 2nd section of the diagram.

3. Wiring of connector

(Example)

CN1



1 2 CN2
SYS CON

In the above example, CN1 is connected with CN2 on 1 2 SYS CON board.

Note: When one end of the connector's wiring is the MOTHER board, further destination of the wiring after the MOTHER board is shown in () nearby the connector.

4. Signal flow on the diagram

The following arrow marks indicate the specified signal paths respectively.

- : RECORDING or EE signal path
- : PLAYBACK signal path
- : REC/PLAY signal path

5. Measurement of voltage and waveform

1) Voltage

Measured by digital voltmeter in REC mode.

Value in () shows voltage in S-VHS PB mode, and it is indicated only in the case PB voltage is different from that in REC.

2) Waveform

Video: Unless otherwise indicated, (a) color bars signal input through LINE IN terminal in REC in S-VHS mode, (b) color bars signal of MHV-2H alignment tape in PB.

6. Unit of value

Unless otherwise specified:

- 1) Resistance is in Ω (1/6 W)
- 2) Capacitance in μF
- 3) Inductance in μH
- 4) Screened parts (in ) are important for safety assurance. When replacing them, use specified parts.
- 5) Values without any indication in () are common to the BR-S822, BR-S622, BR-S522 and BR-S525.

4.1 CIRCUIT BOARD LOCATIONS

• Index to board by kind of diagram

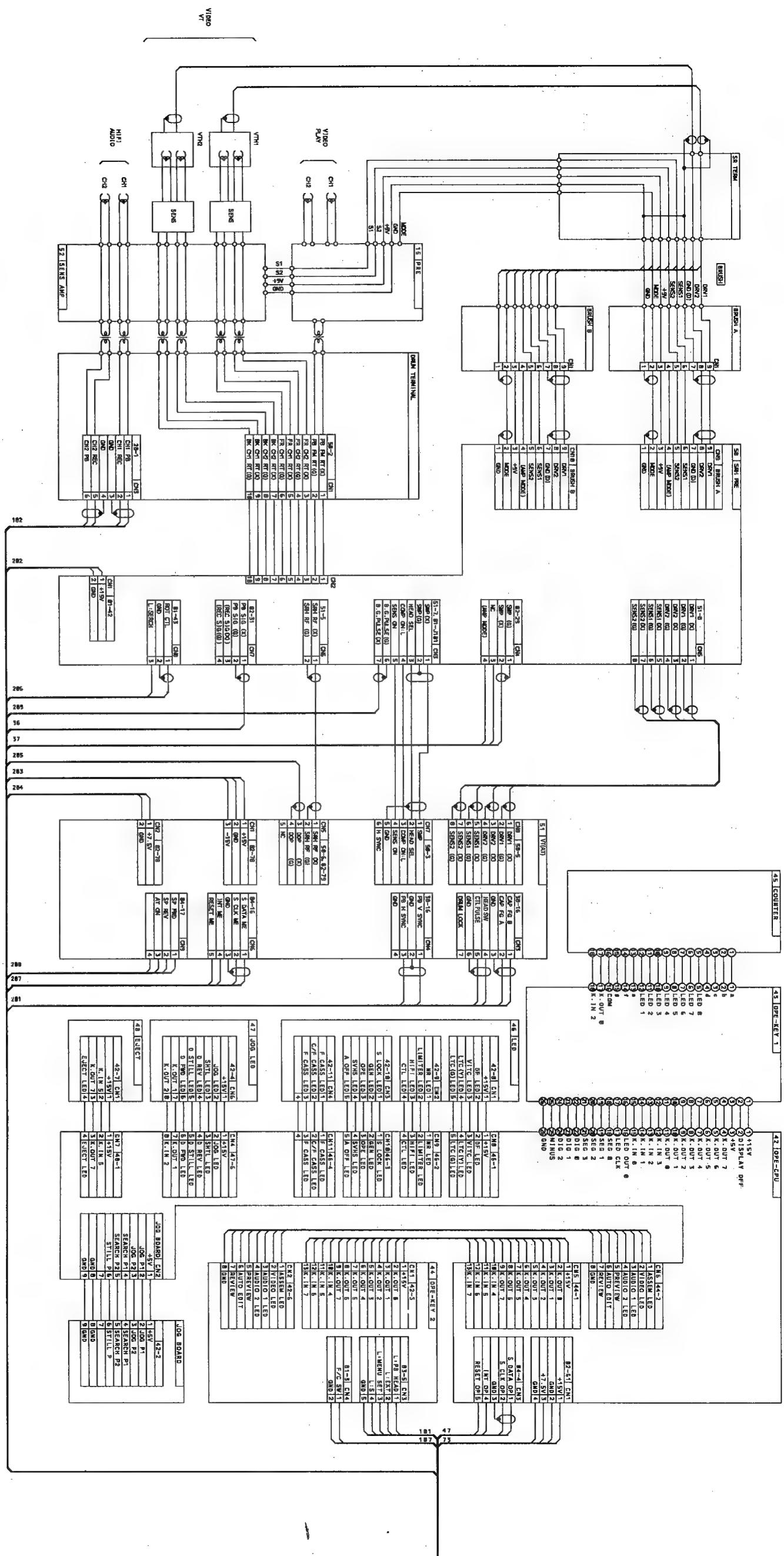
This section contains merely the diagrams of the circuit boards that have been changed. For other circuit boards, refer to the service manual for BR-S822U/BR-S622U/BR-S522U/BR-S525U.

The Board Numbers (□□) appearing in this section are the same as those in the service manual.

Board No.	Board Name	Page of diagram			
		Block diagram	Schematic diagram	Circuit board	Parts list
01	MOTHER-1	—	4-8	4-9,4-18	6-2
02	MOTHER-2	—	4-10,11	4-12	6-3
03	SLOT MOTHER	—	*1	*1	*1
04	SYSCON MOTHER	—	*1	*1	*1
05	FUSE	—	*1	*1	*1
10	REC/PB Y (NC LIM INC.)	*1	*1	*1	*1
12	REC/PB C (CTC DL, CNR DL, DELAY TP INC.)	*1	*1	*1	*1
15	PRE/REC	—	*1	*1	*1
16	R/P ADJUST	*1	*1	*1	*1
17	Y COMB (1H DELAY 4FSC INC.)	*1	*1	*1	*1
19	OUTPUT	*1	*1	*1	*1
20	FMA PRE/REC	*1	*1	*1	*1
21	AUDIO-1	*1	*1	*1	*1
22	AUDIO-2	*1	*1	*1	*1
23	AUDIO-3	*1	4-14,15	4-13	6-3 ~ 5
24	AUDIO-4	*1	*1	*1	*1
25	AUDIO-5	*1	*1	*1	*1
26	AUDIO-6	*1	*1	*1	*1
27	JACK	FRONT (BR-S822/BR-S622)	*1	*1	*1
28	VR	FRONT (BR-S822/BR-S622)	*1	*1	*1
26	AUDIO-6	—	*1	*1	*1
27	JACK	FRONT (BR-S522)	—	*1	*1
28	VR	FRONT (BR-S522)	—	*1	*1
29	A/C HEAD	—	—	*1	*1
30	D/C SERVO	*1	*1	*1	*1
31	M-CTL/REEL SERVO	*1	*1	*1	*1
40	SYSCON	*1	*1	*1	*1
41	AV MICOM/ON SCREEN	*1	4-16	4-17	6-6 ~ 8
42	OPERATION (43, 44, 46, 47, 48 INC.)	—	*1	*1	*1
45	COUNTER DISPLAY	—	*1	*1	*1
71	REAR-1 (72-2, 73-3 INC.)	*1	*1	*1	*1
80	METER (81 SWITCH, 82 TRACKING VR INC.)	*1	*1	*1	*1
83	SUB PANEL (84 TP TERMINAL INC.)	—	*1	*1	*1
91	DECK TERMINAL (92-2 INC.)	—	*1	*1	*1
93	CASSETTE HOUSING	—	—	*1	*1

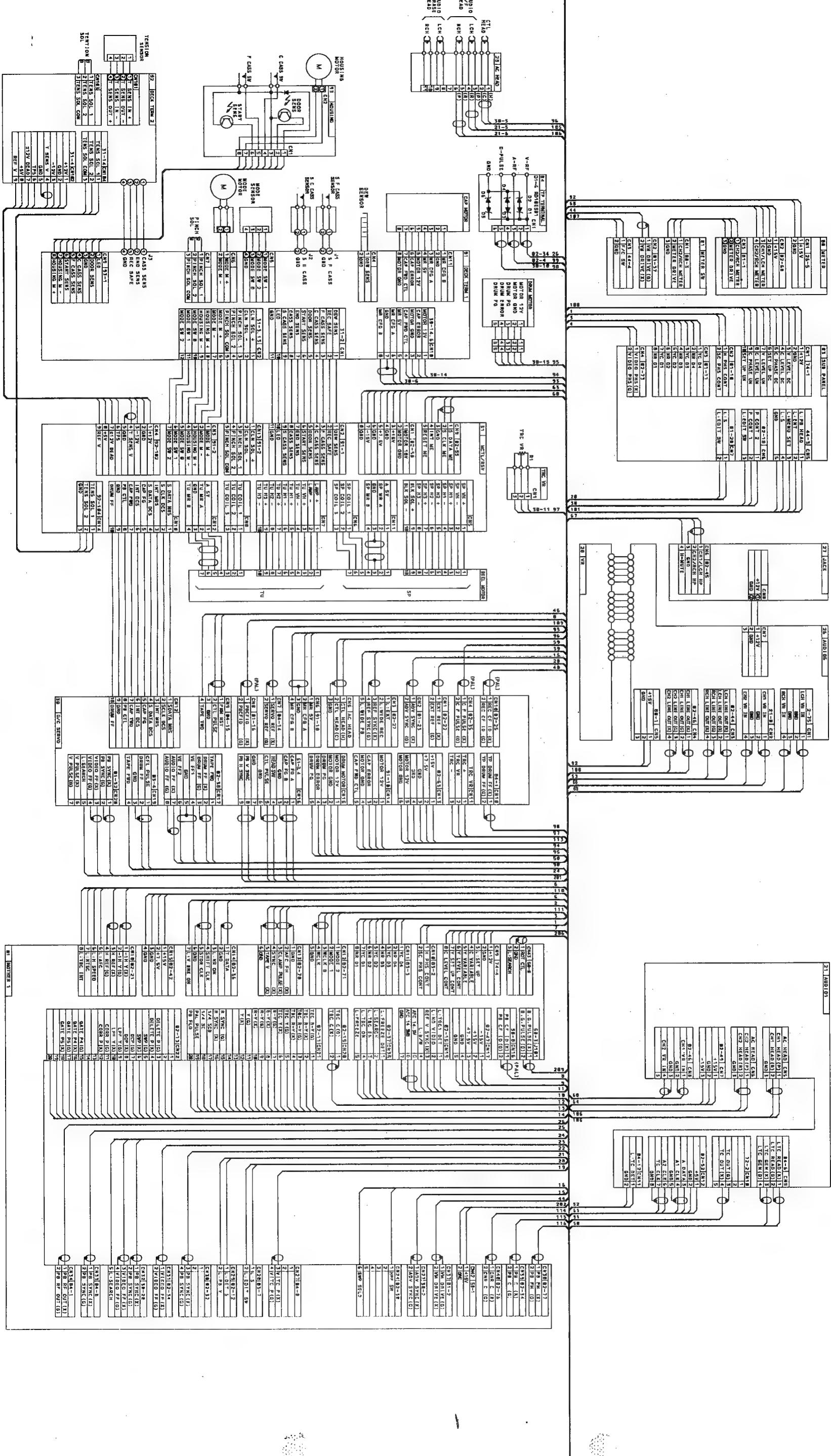
*1: Refer to the BR-S822U/BR-S622U/BR-S522U/BR-S525U.

— DIAGRAM (1/3) —

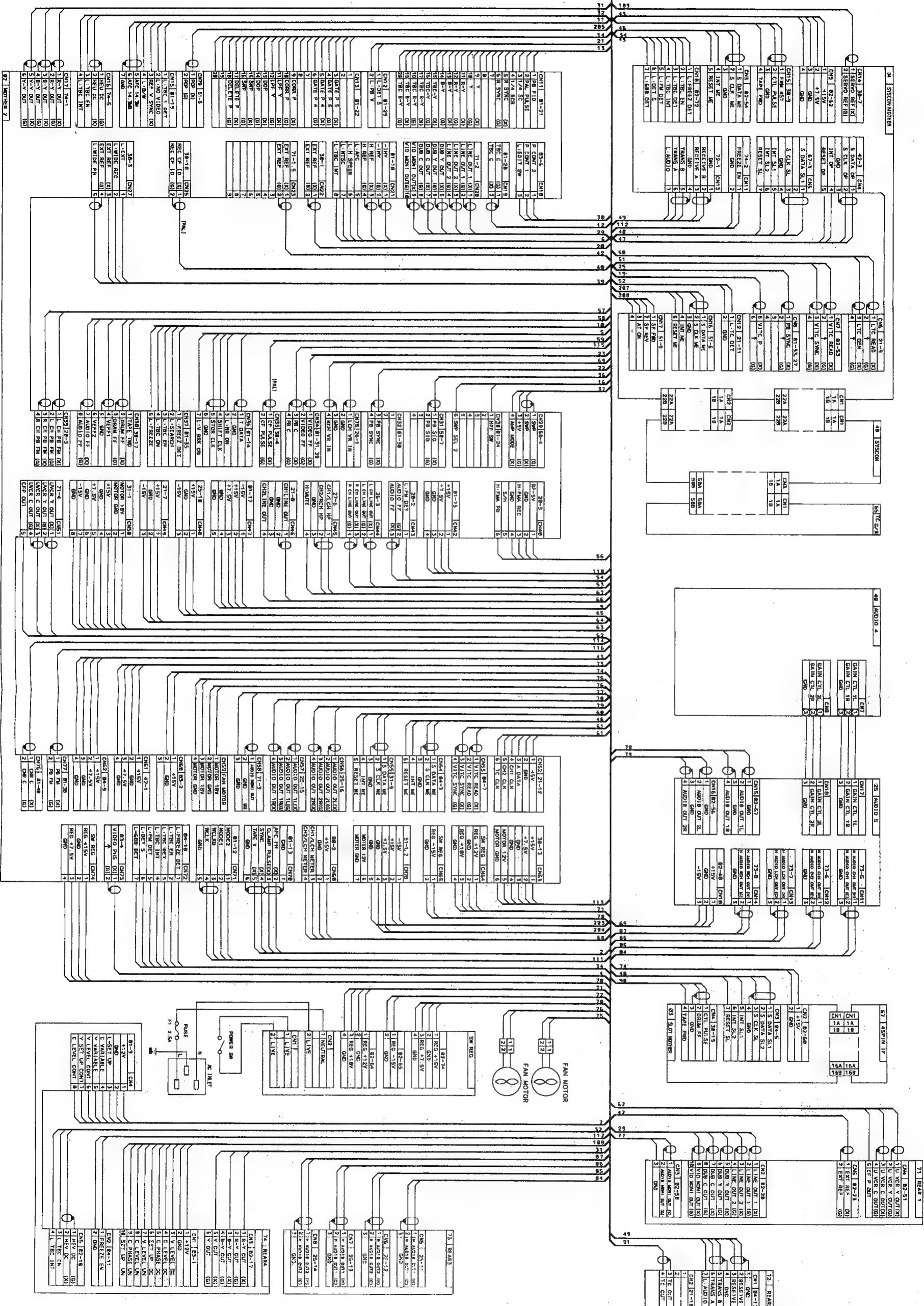


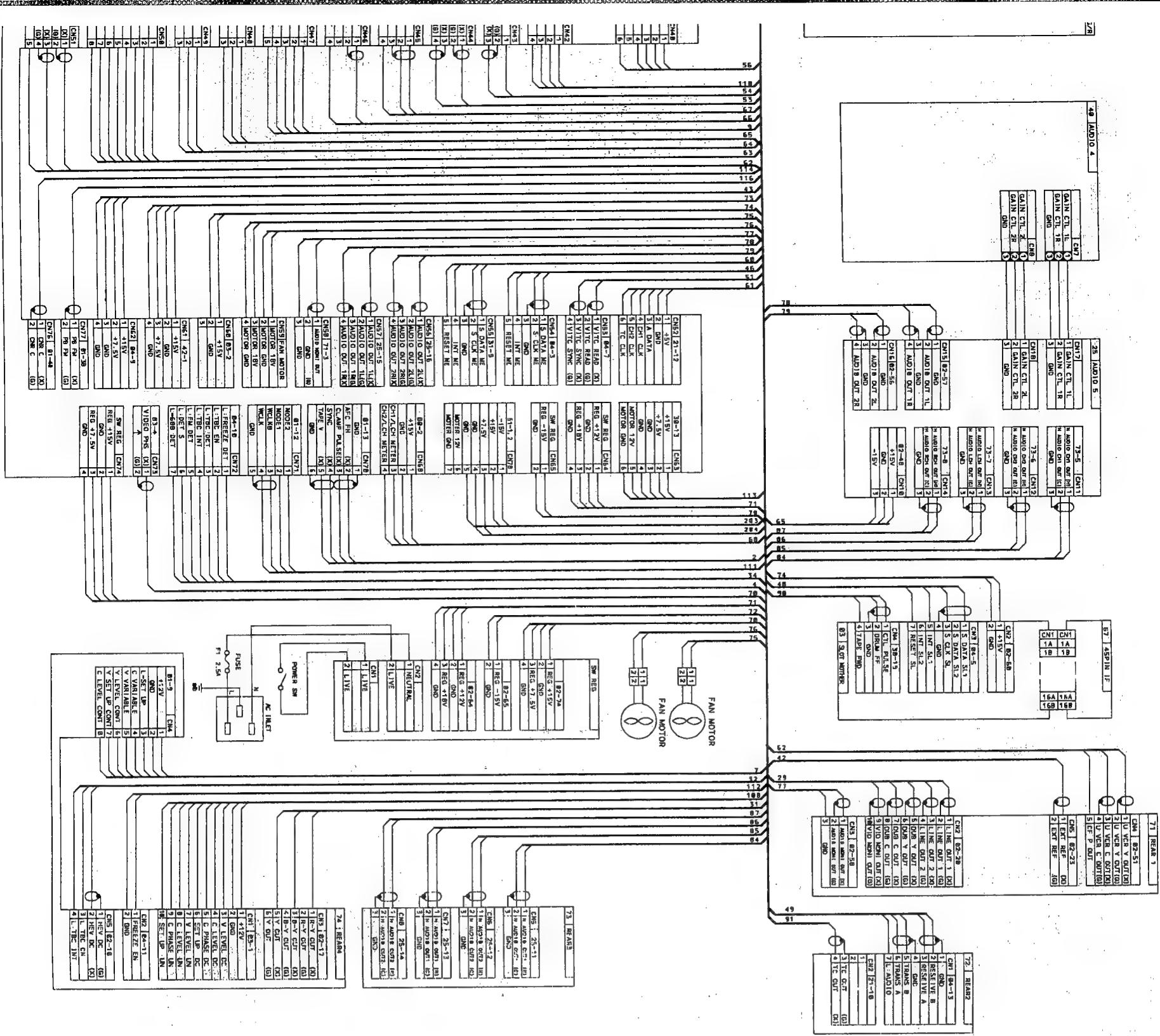
A B C D E F G H

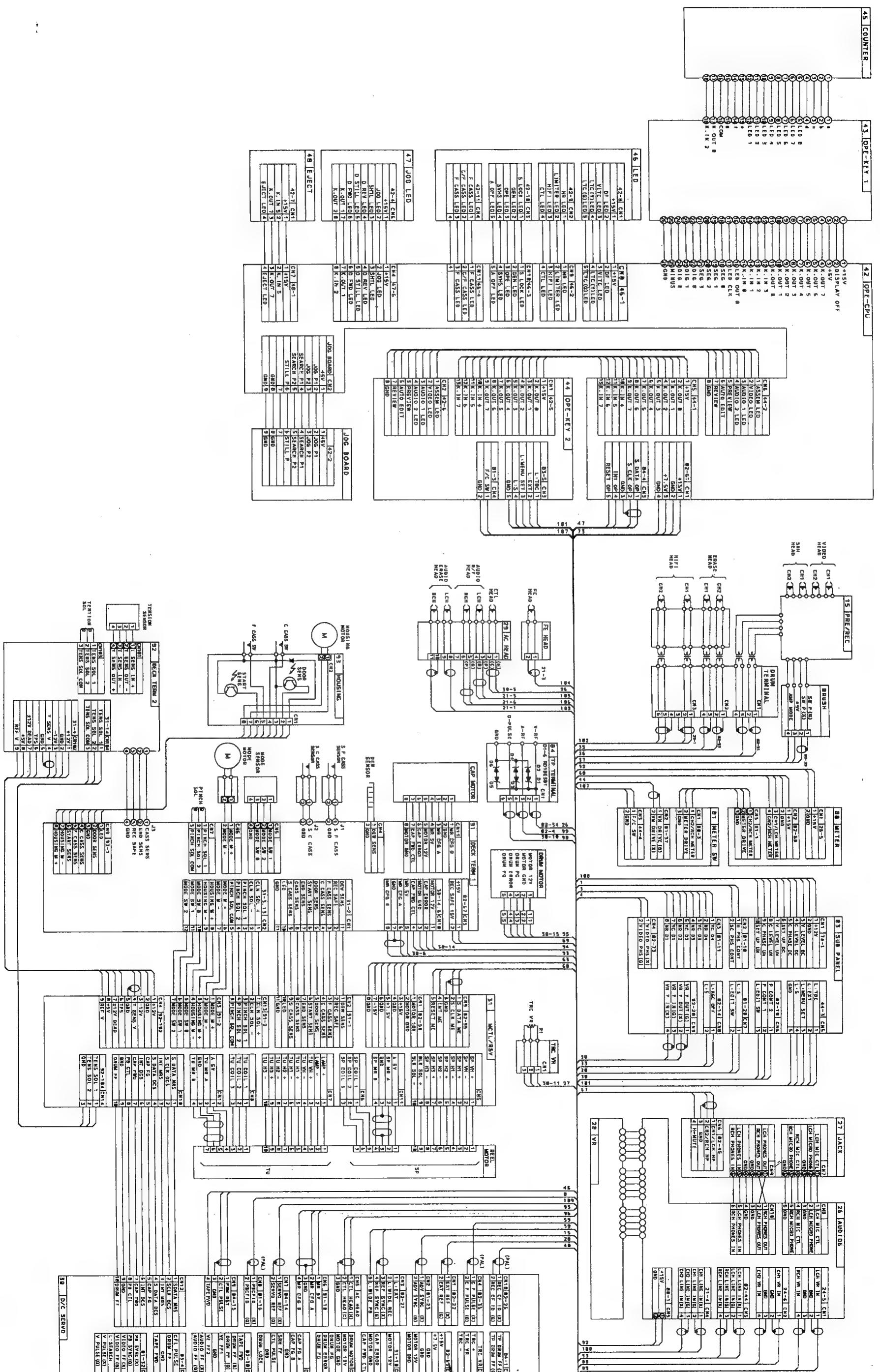
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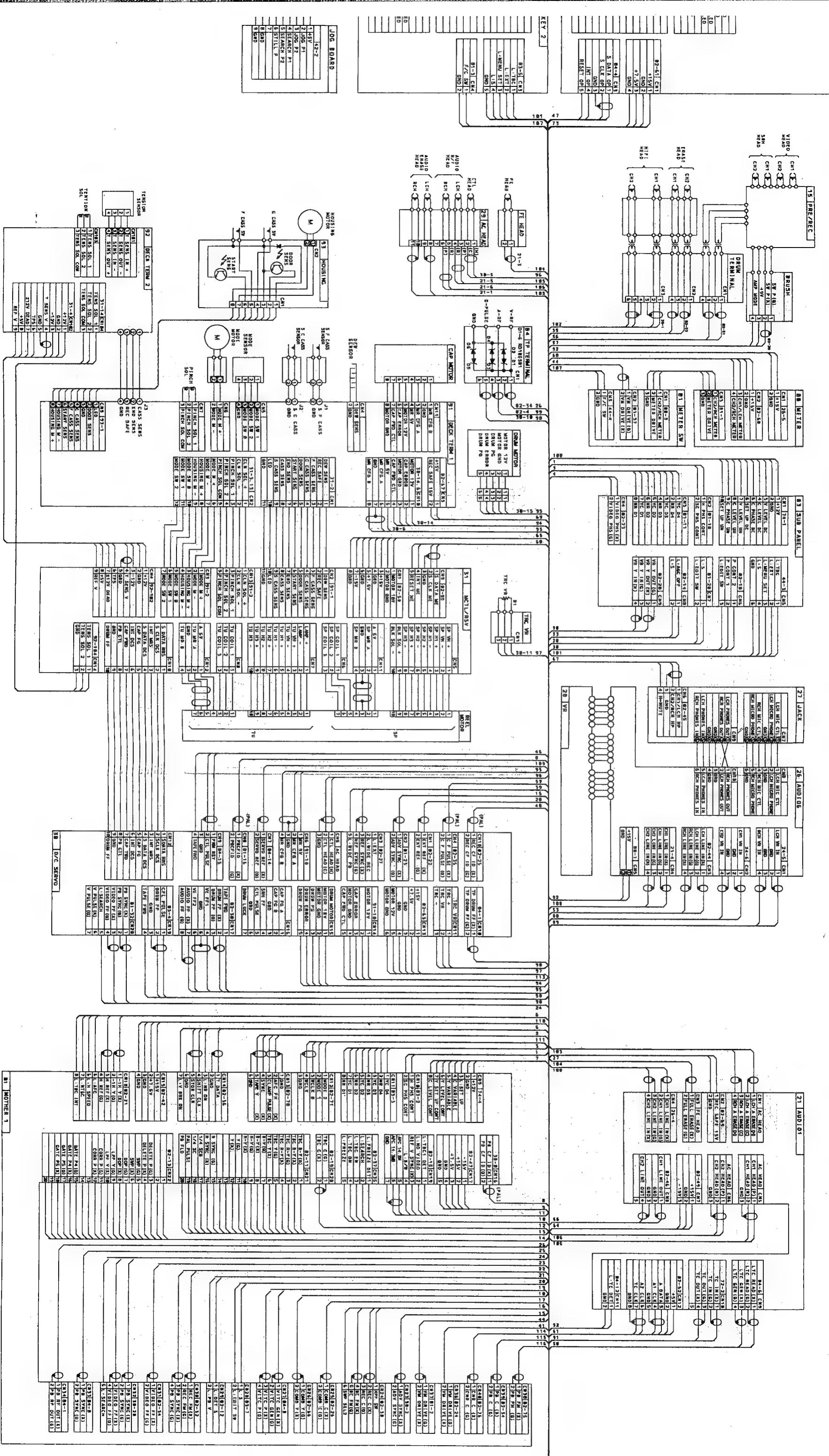


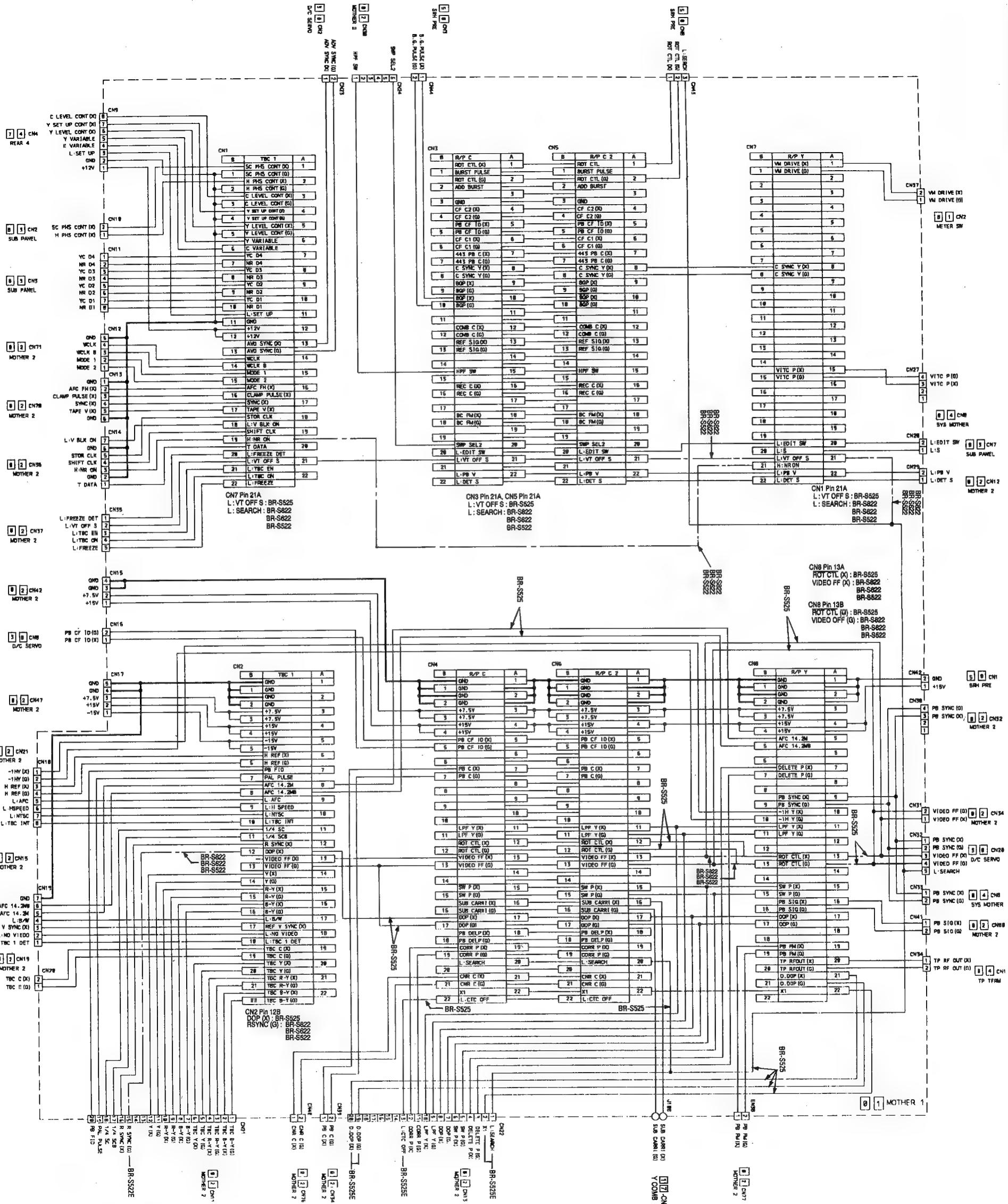
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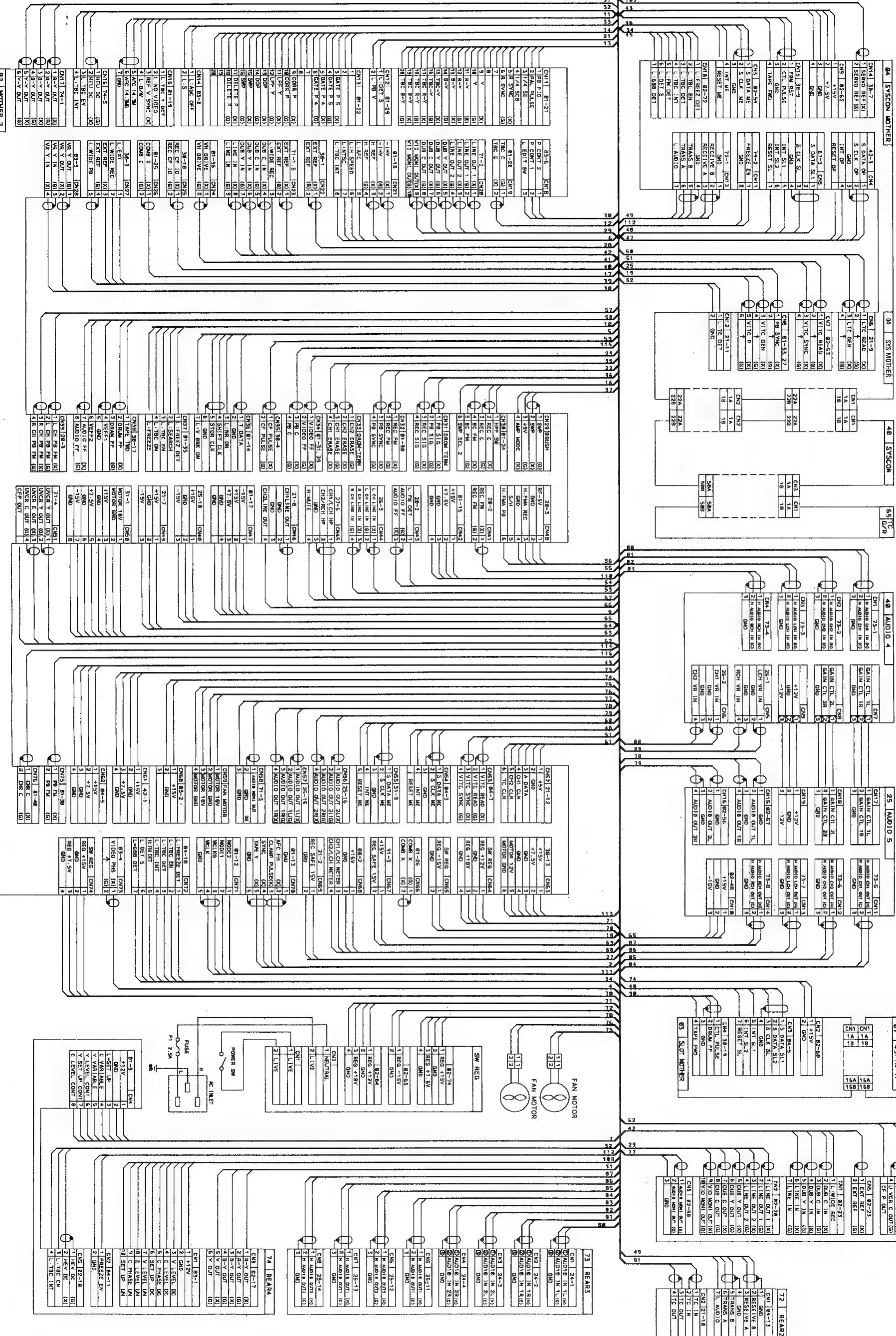




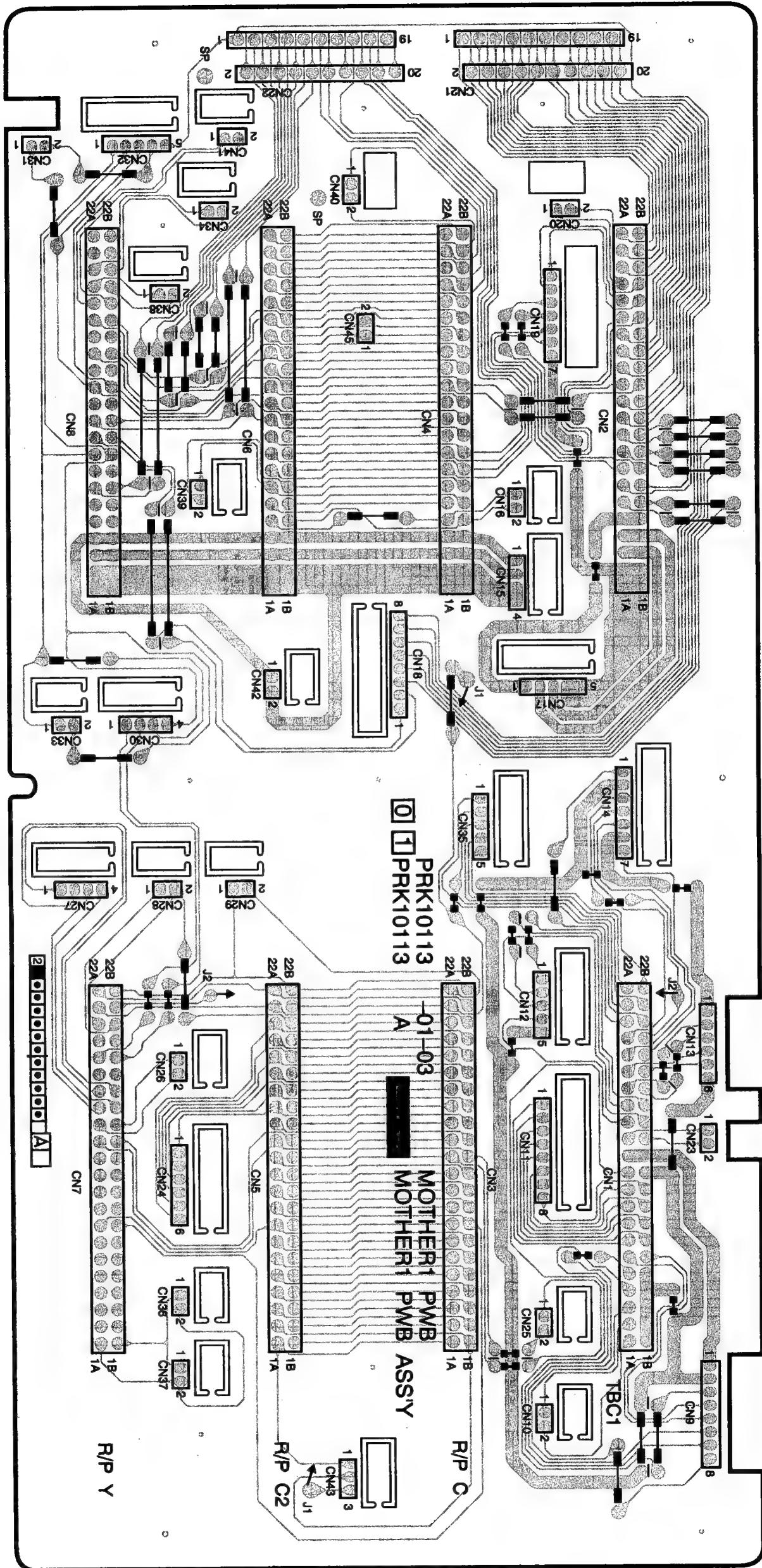




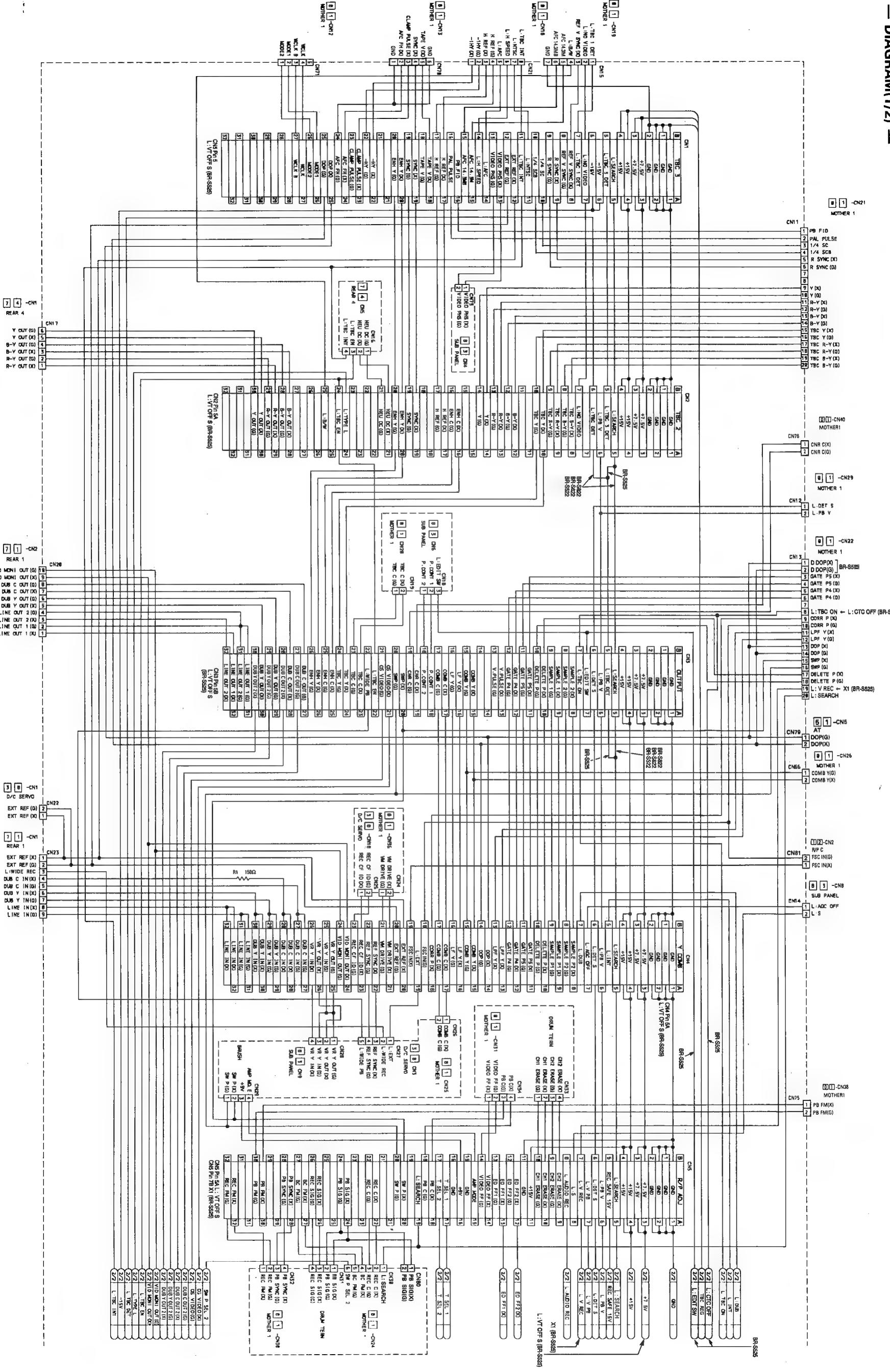




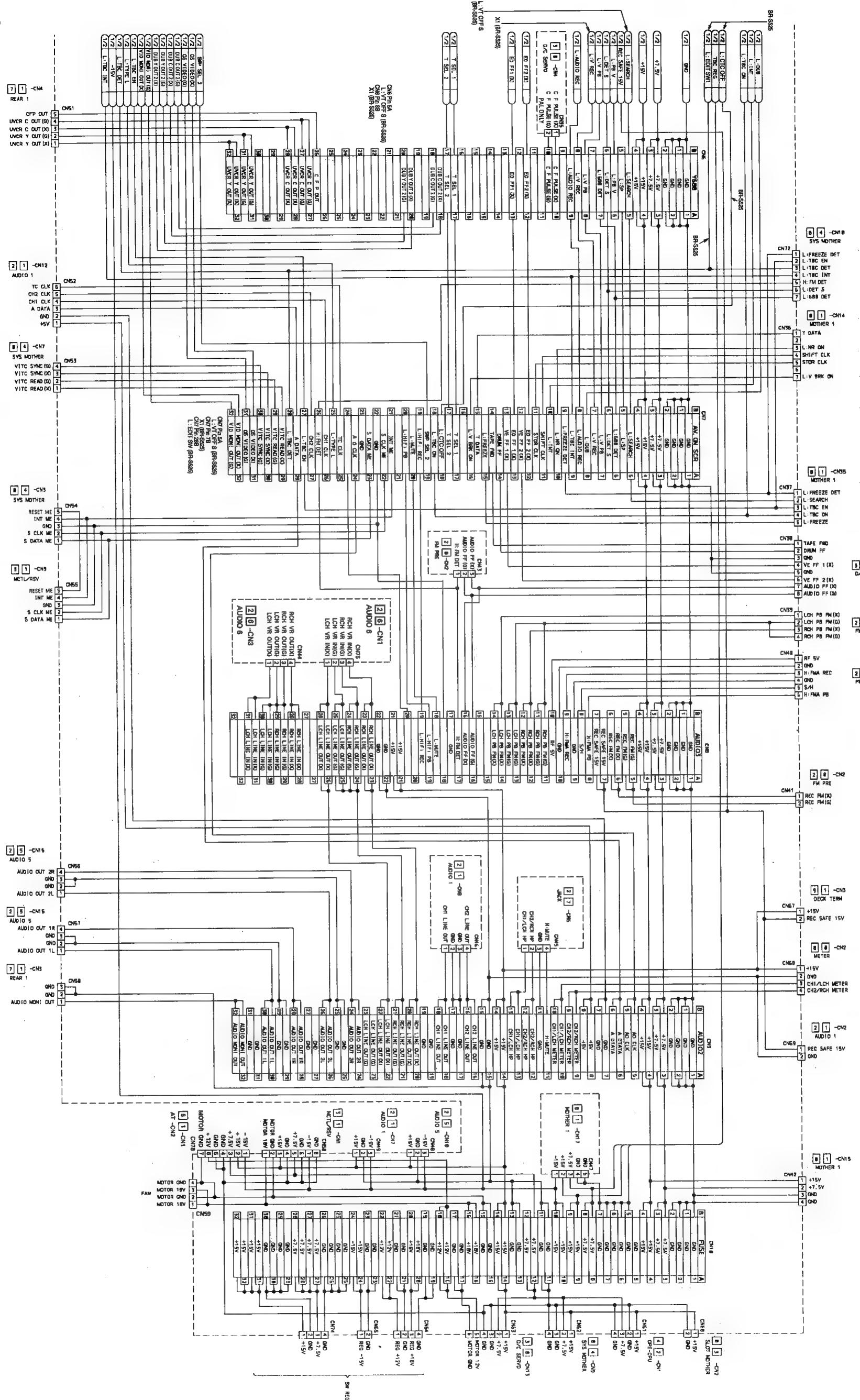
PRK10113-01-03
PRK10113-A
MOTHER1 PWB
MOTHER1 PWB
ASS'Y

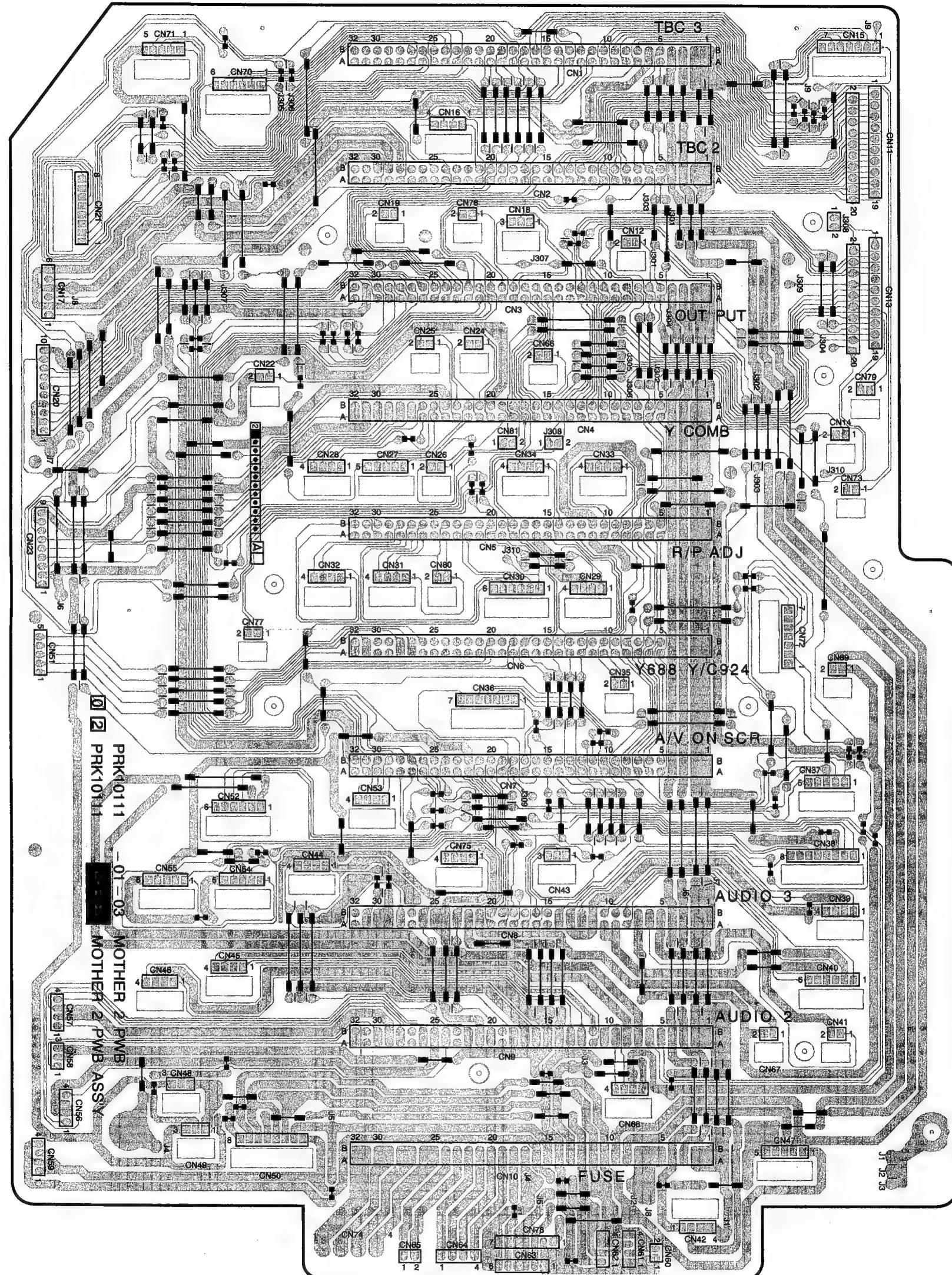


— DIAGRAM(1/2) —

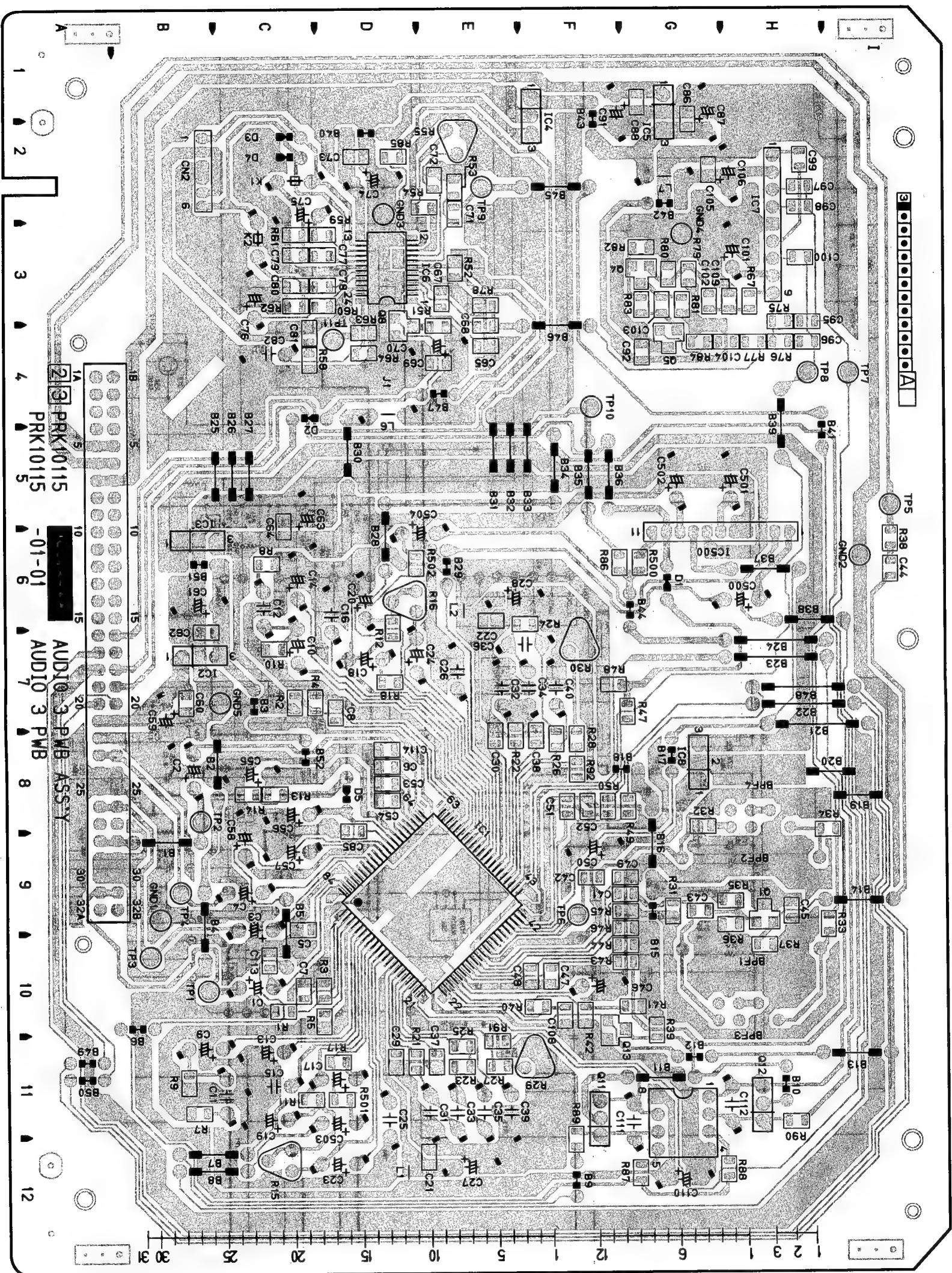


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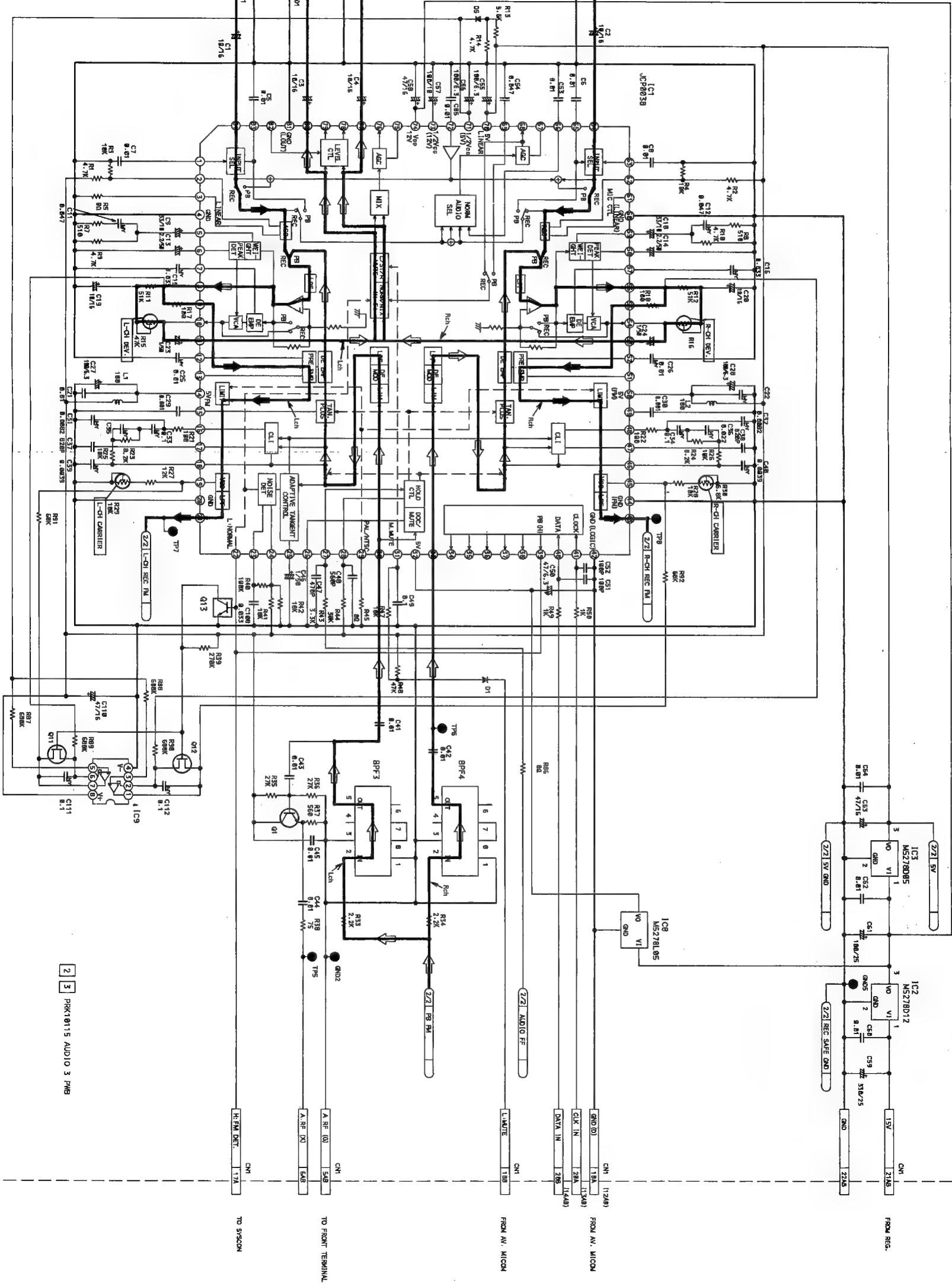




A
B
C
D
E
F
G
H



— DIAGRAM (1/2) —

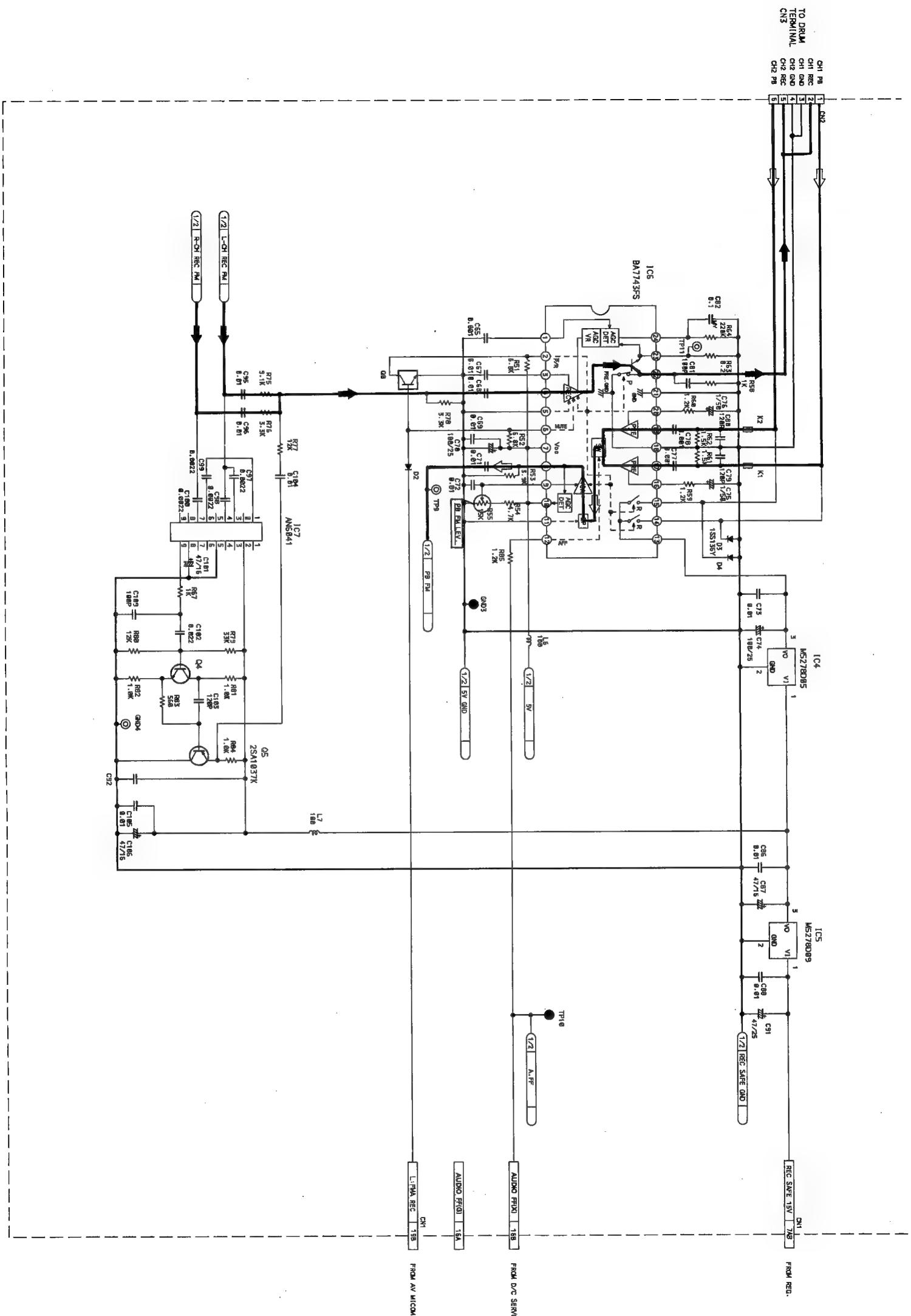


ALL NPN TRANSISTORS ARE 2SA103K
 ALL PNP TRANSISTORS ARE 2SC2421K
 ALL NPN DIGITAL TRANSISTORS ARE DTC124EK
 ALL PNP DIGITAL TRANSISTORS ARE DTA124EK
 ALL DIODES ARE 1SS132Y
 ALL RESISTANCE VALUES ARE IN OHMS. (1/10W)
 ALL INDUCTANCE VALUES ARE IN μ H.
 ALL CAPACITANCE VALUES ARE IN UF.

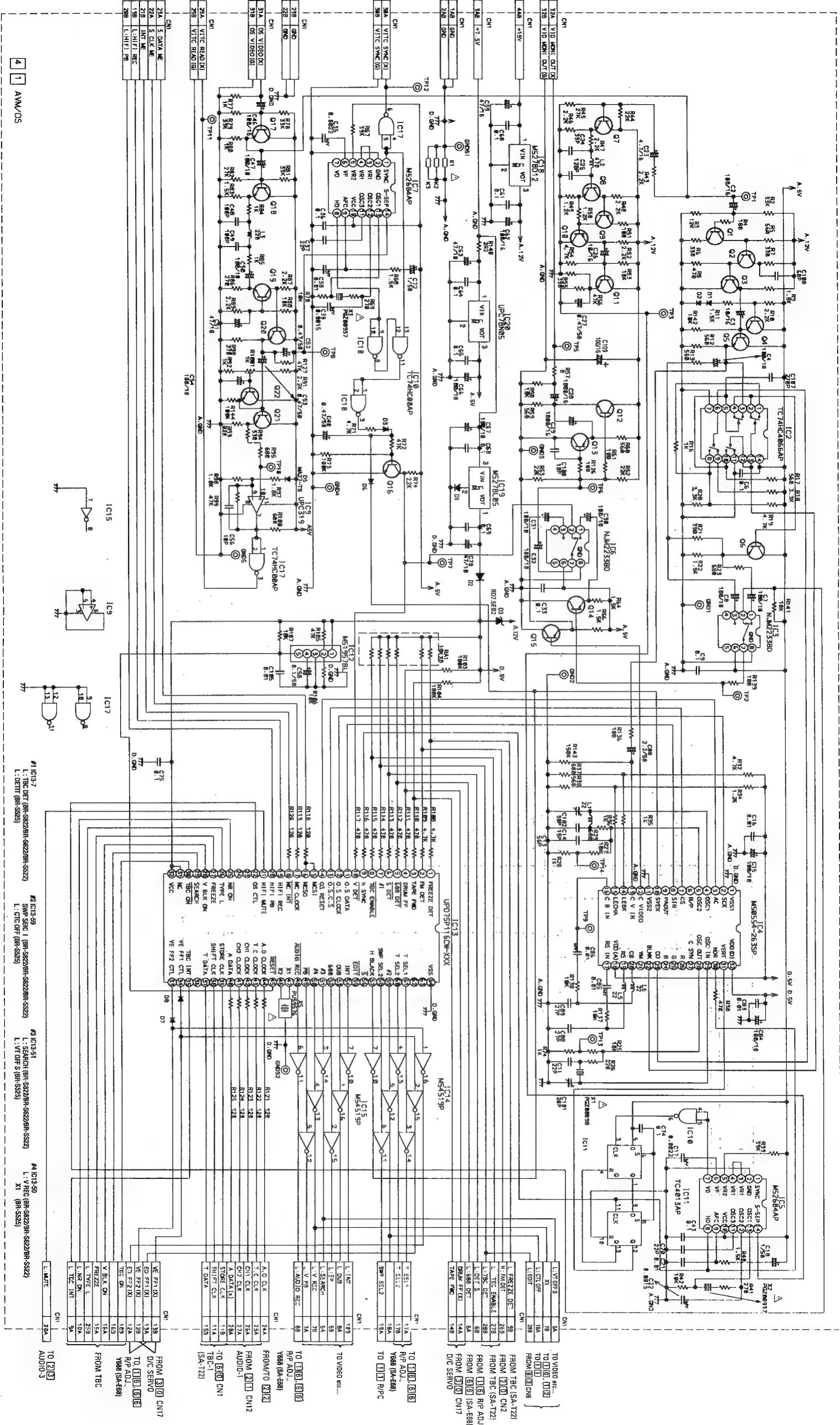
ELECTROLYTIC
CERAMIC
MYLAR

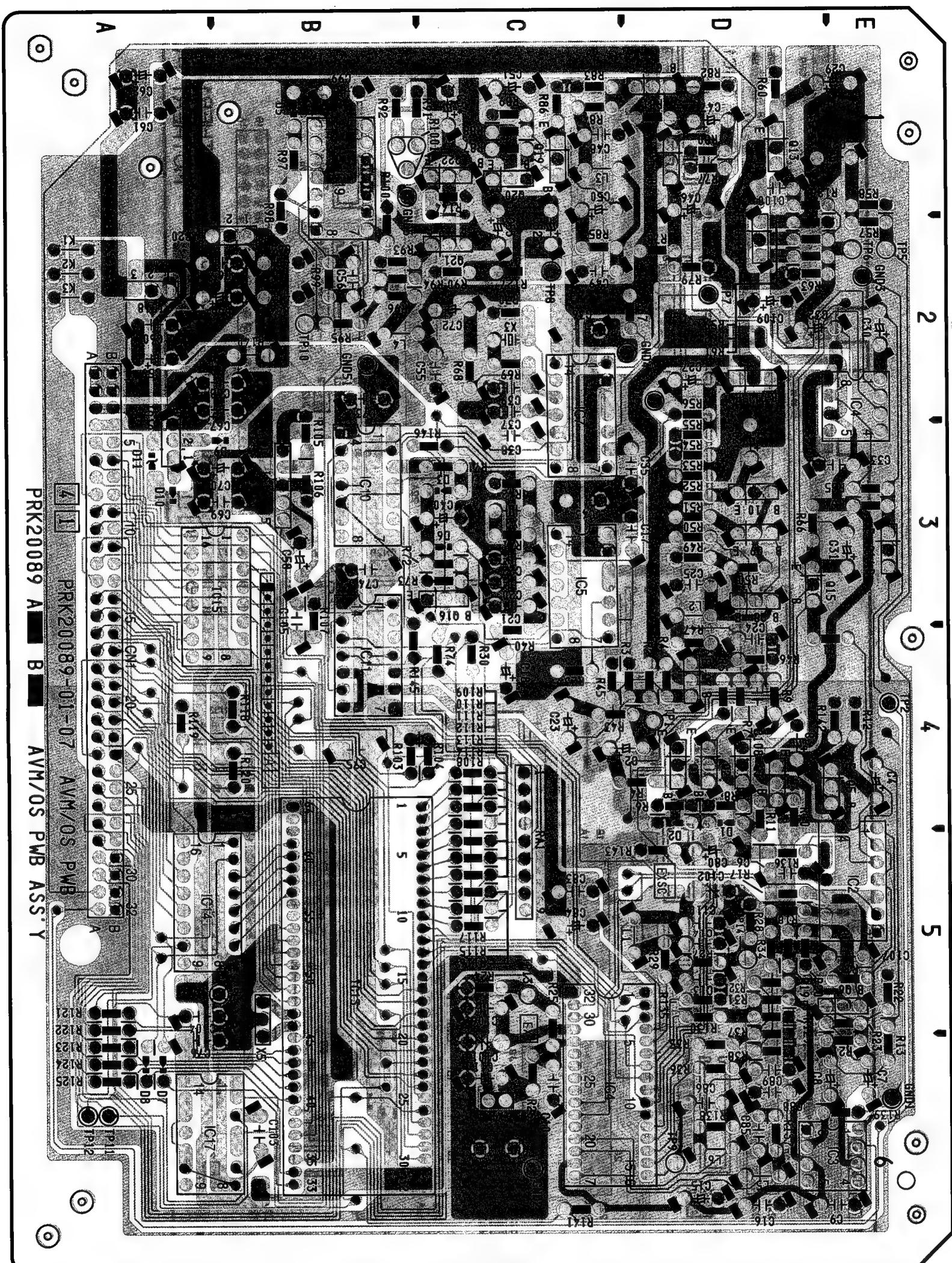
2 3 PRK10115 AUDIO 3 PWB

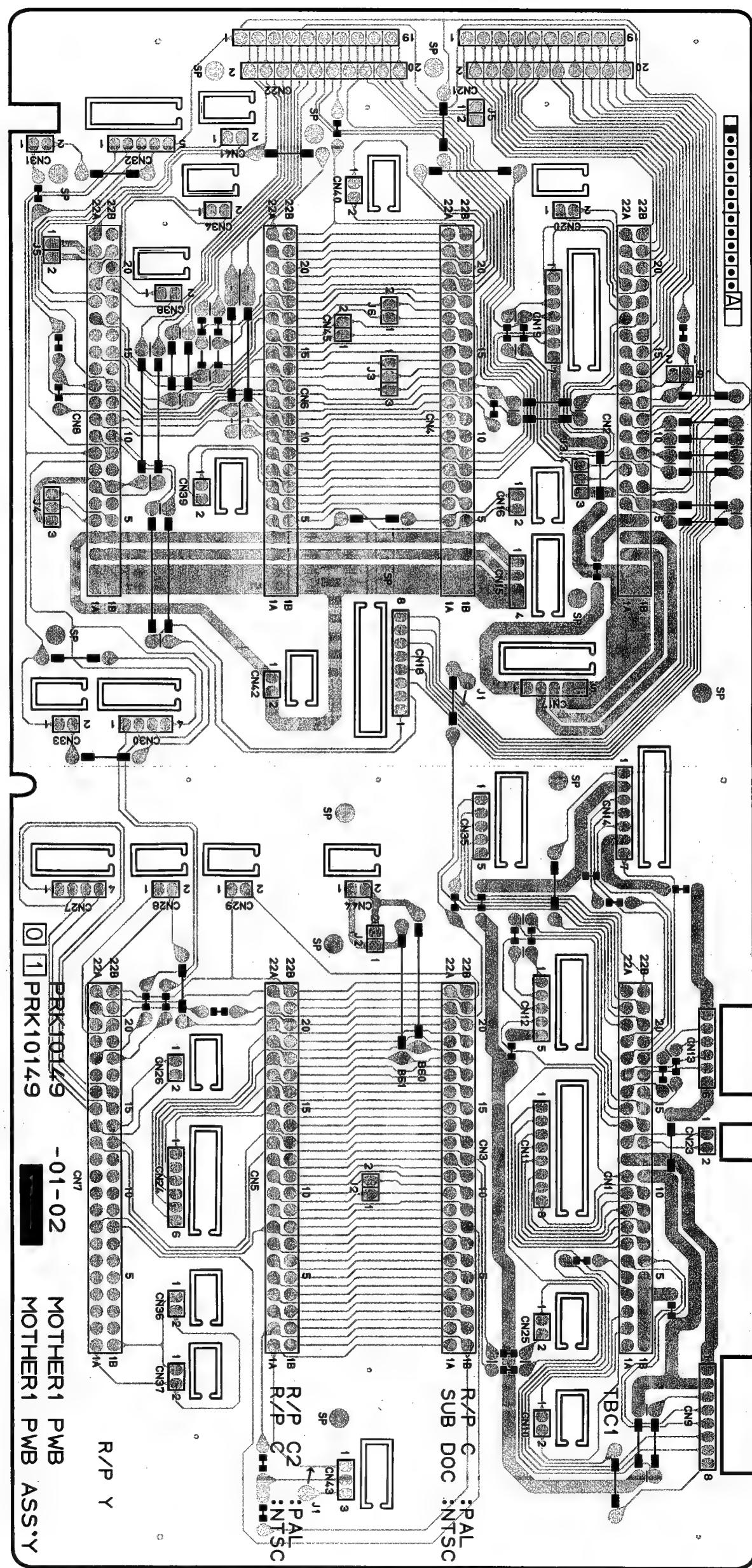
— DIAGRAM (2/2) —



A B C D E F G H







SECTION 5

EXPLODED VIEWS AND PARTS LIST

SAFETY PRECAUTION

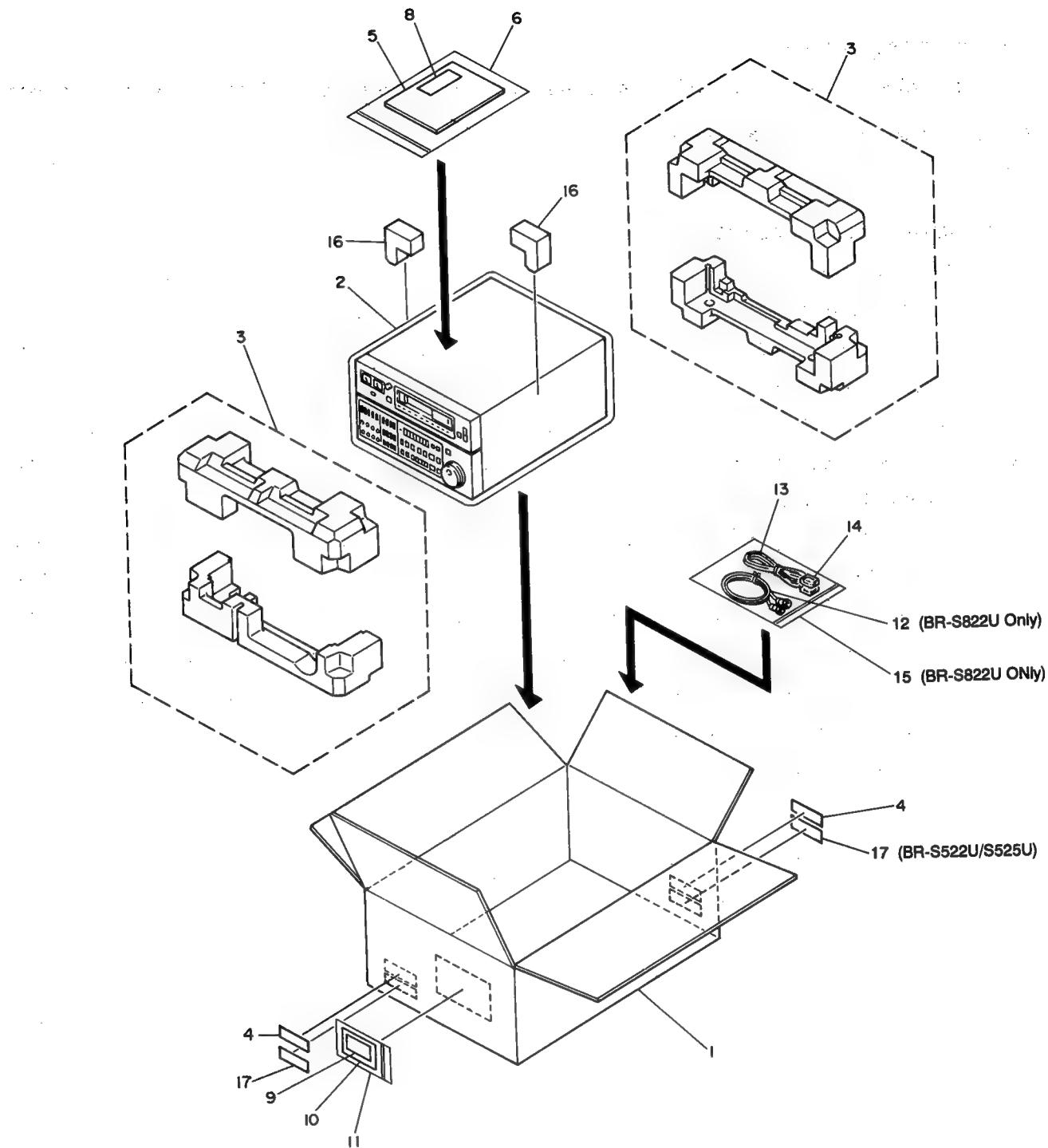
Parts identified by the  symbol are critical for safety. Replace only with specified part numbers.

NOTE: "X" indicates quantity per set.

	Page
EXPLODED PART NUMBER CODING	
5.1	5-2
5.2	5-4
5.3	5-6
5.4	5-8
5.5	5-10
5.6	5-12
5.7	5-14
5.8	5-16
5.9	5-18
5.9.1	5-18
5.9.2	5-18
5.10	5-19
5.10.1	5-19
5.10.2	5-20

EXPLODED PART NUMBER CODING

5.1 PACKING ASSEMBLY <M1>



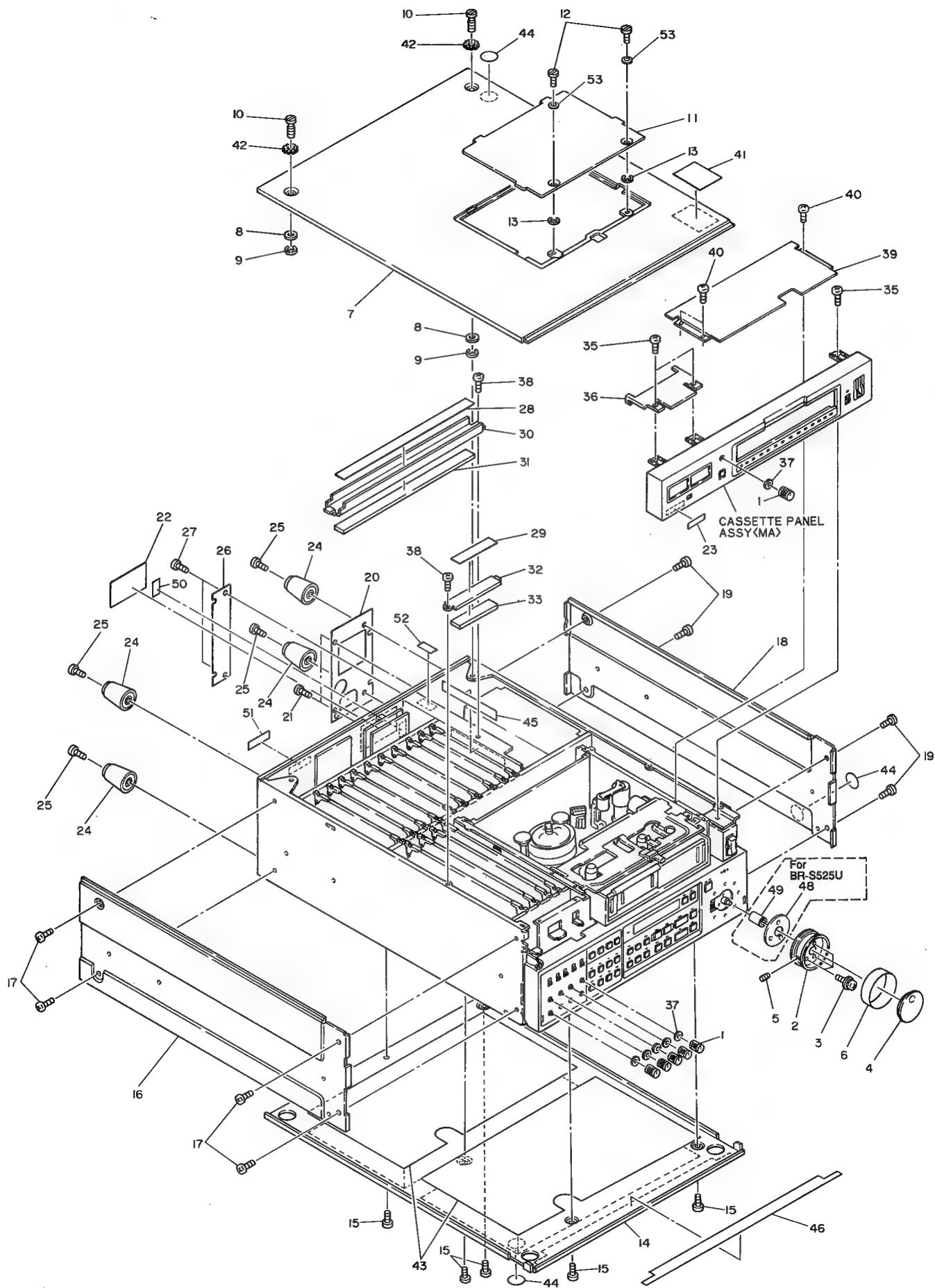
PACKING ASSEMBLY M1**M1MM□□□**

#[△] REF No. PART No. PART NAME, DESCRIPTION

PACKING ASSEMBLY <M1>

1	PRD20370-02-01	PACKING CASE, S822U
1	PRD20370-04-01	PACKING CASE, S622U
1	PRD20370-08	PACKING CASE, S522U
1	PRD20370-12	PACKING CASE, S525U
2	PGD30005-05	PE BAG
3	PRD10251A-02	CUSHION ASSY
4	PUP40619	SERIAL NO. STICKER, X2
△ 5	PGD30002-258-04	INSTRUCTIONS, S822U
△ 5	PGD30002-259-03	INSTRUCTIONS, S622U
△ 5	PGD30002-282-02	INSTRUCTIONS, S522U
△ 5	PGD30002-294-03	INSTRUCTIONS, S525U
6	QPGB024-03404	POLY BAG
△ 8	PU33941-3-3	SAFETY CAUTION
9	BT-20104A	TOLL FREE CARD
10	BT-20103A	WARRANTY CARD
11	PU54821	POLY BAG
12	PGZ00793-006	CABLE ASSY, S822U
△ 13	QMP9003-022	POWER CORD
14	PUP40003-7	AIR CAP
15	QPGB020-02804	POLY BAG, S822U
16	PRD30848	SPACER CUSHION, X2
17	PRD43892	LABEL(PACKING), X2, S522U/S525U

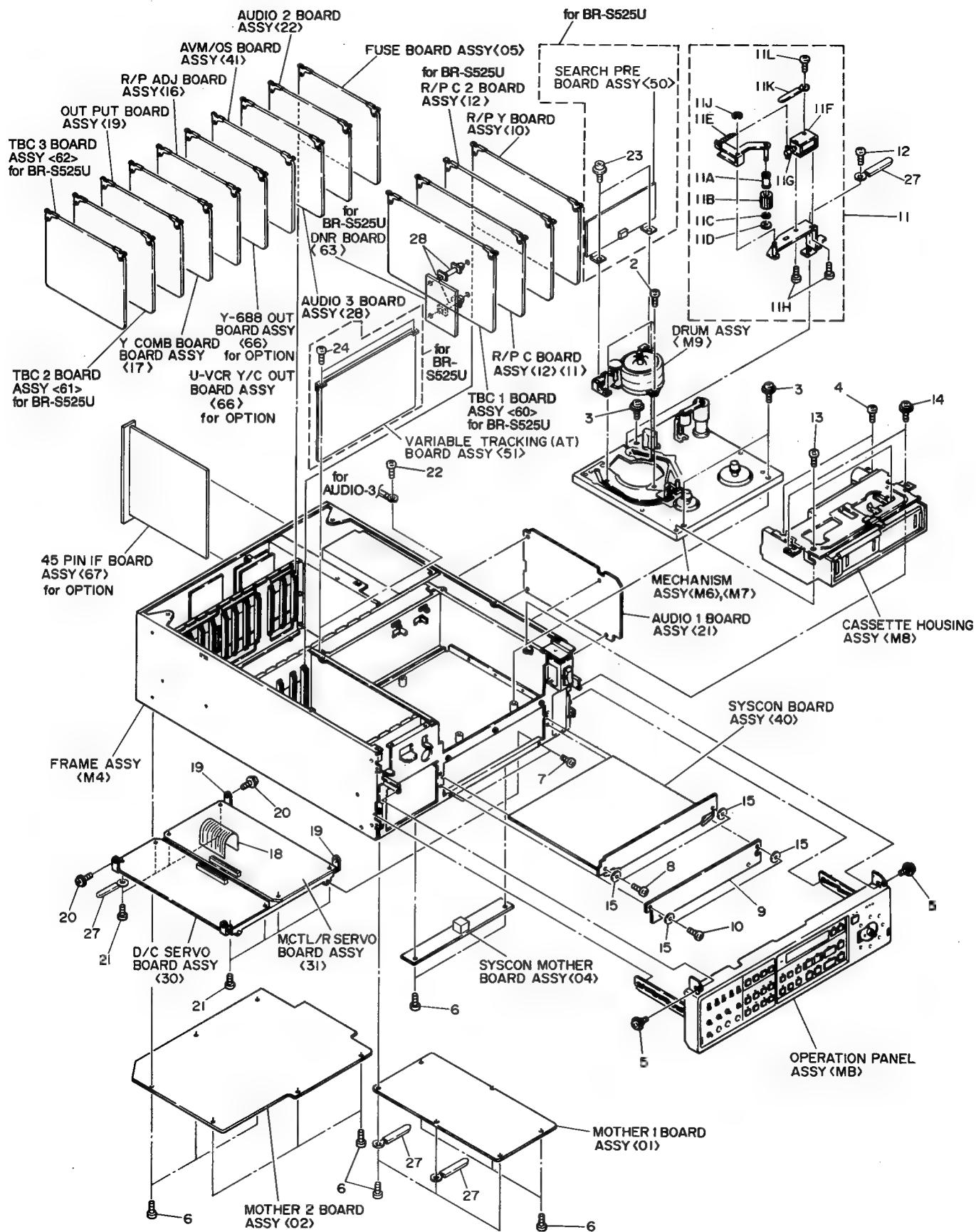
5.2 CABINET ASSEMBLY <M2>



#	REF No.	PART No.	PART NAME, DESCRIPTION	#	REF No.	PART No.	PART NAME, DESCRIPTION

CABINET ASSEMBLY <M2>							
1	PRD43431A-01	VR KNOB ASSY, X6		△ 50	SS410172	CSA LABEL	
2	PRD30196-03	SEARCH KNOB		△	or PGD40147-07	CSA LABEL	
3	DPSP2006Z	SCREW, X3, S822U/S622U/S522U		51	PRD43814	LABEL(PATENT)	
3	DPSP2012Z	SCREW, X3, S525U		△ 52	PU54551	CAUTION LABEL	
4	PRD41819B	JOG KNOB ASSY		53	WNB3000N	WASHER, X2	
5	YWS3004B	SET SCREW					
6	PRD41818	TIRE					
7	PRD10247A-03	TOP COVER ASSY					
8	PGD40255-02	SPACER, X2					
9	REE3000	"E" RING, X2					
10	PRD30081-03	COIN SCREW, X2					
11	PRD30841-01-01	COVER					
12	PRD30081-01-01	COIN SCREW, X2					
13	REE2500	"E" RING, X2					
△ 14	PRD10232-01-03	BOTTOM COVER					
15	SDST3008Z	SCREW, X5					
△ 16	PRD10233-01-04	LEFT SIDE COVER					
17	SDSP4008R	SCREW, X4					
△ 18	PRD10234-01-04	RIGHT SIDE COVER					
19	SDSP4008R	SCREW, X4					
△ 20	PRD30730-02-04	REAR PANEL(B)					
21	SDSP3006R	SCREW, X2					
△ 22	PGD30021-59-32	RATING LABEL, S822U					
△ 22	PGD30021-57-32	RATING LABEL, S622U					
△ 22	PRD30085-07-20	RATING LABEL, S522U					
△ 22	PRD30085-13-20	RATING LABEL, S525U					
23	PQ40111-1-5	SERIAL NO PLATE					
24	QZF2319-001	FOOT, X4					
25	SDSP4018M	SCREW, X4					
△ 26	PRD43423-01-04	REAR PANEL(C)					
27	SDSP3006R	SCREW, X2					
28	PRD30802-01-02	BOARD LABEL(A)					
29	PRD43611-01-02	BOARD LABEL(B), S822U/S622U/S522U					
29	PRD43611-03	BOARD LABEL(B), S525U					
30	PRD30840-01-02	BOARD HOLDER(A)					
31	PRD30030-117	PAD					
32	PRD44218	BOARD HOLDER(B)					
33	PRD30030-118	PAD					
35	SDST3008Z	SCREW, X3					
36	PRD30835-01-01	TOP PLATE(L)					
37	PGD40292	FELT WASHER, X6					
38	SBST3006Z	SCREW, X2					
39	PRD20412	HOUSING COVER					
40	SDST3008Z	SCREW, X3					
41	PGD41496-04	LABEL					
42	WBS4000N	WASHER, X2					
43	PRD30858	SHEET, X2					
△ 44	PU53146	CAUTION LABEL, X3					
△ 45	PGD40888	CAUTION LABEL					
46	PRD30861	SPACER					
48	PRD44134	SPACER, S525U					
49	PRD30026-47	COLLAR, S525U					

5.3 CHASSIS ASSEMBLY <M3>



CHASSIS ASSEMBLY M3**M3MM□□□□****#△ REF No. PART No. PART NAME, DESCRIPTION**
*******CHASSIS ASSEMBLY <M3>**

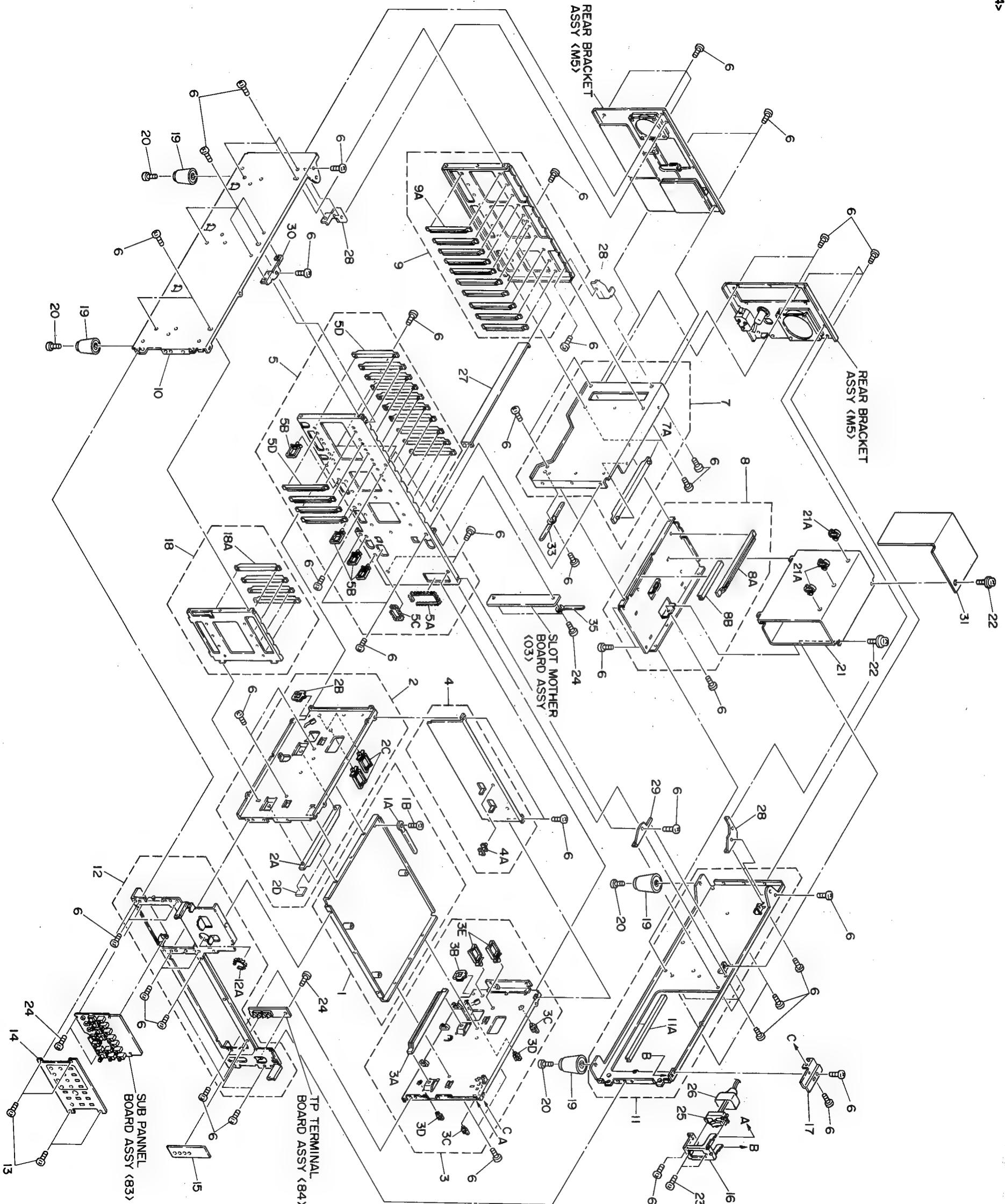
2	LPSP2612Z	SCREW, X3
3	LPSP4016Z	SCREW, X3
4	PRD30027-04	SCREW, X2
5	PRD30082	FLANGE SCREW, X2
6	GBST3006Z	SCREW, X14
7	SDST3006M	SCREW, X2
8	PRD43457-01-01	SCREW, X2
9	PRD30767	COVER
10	PRD43457-01-01	SPECIAL SCREW, X2
11	PRD30797A-03	HEAD CLEANER ASSY
11A	PRD42664	CLEANER HOLDER
11B	PRD40510-01-02	CLEANER
11C	Q03093-829	WASHER
11D	PQM30017	SLIT WASHER
11E	PRD30024-62	TENSION SPRING
△ 11F	PU59401-2	SOLENOID
11G	PRD30023-36	COMPRESSION SPRING
11H	SPSP2003Z	SCREW, X2
11J	REE2500	"E" RING
11K	PU49485-3	WIRE CLAMP
11L	SPSP2003Z	SCREW
12	PRD30027-04	SCREW
13	SDSP2608Z	SCREW, X2
14	GBST3008Z	FLANGE SCREW, X2
15	Q03093-517	WASHER, X4
18	PGW0205-040100	FLAT WIRE
19	PRD30762-01-02	BOARD BRACKET, X2
20	PRD30082	FLANGE SCREW, X2
21	GBST3006Z	SCREW, X8
22	SBST3006Z	SCREW
23	PRD30027-04	SCREW, X2, S525U
24	SDST3008Z	SCREW, X2, S525U
27	PU49485-4	WIRE CLAMP, X4
28	PGZ01786-02	PWB SPACER, X2, S525U

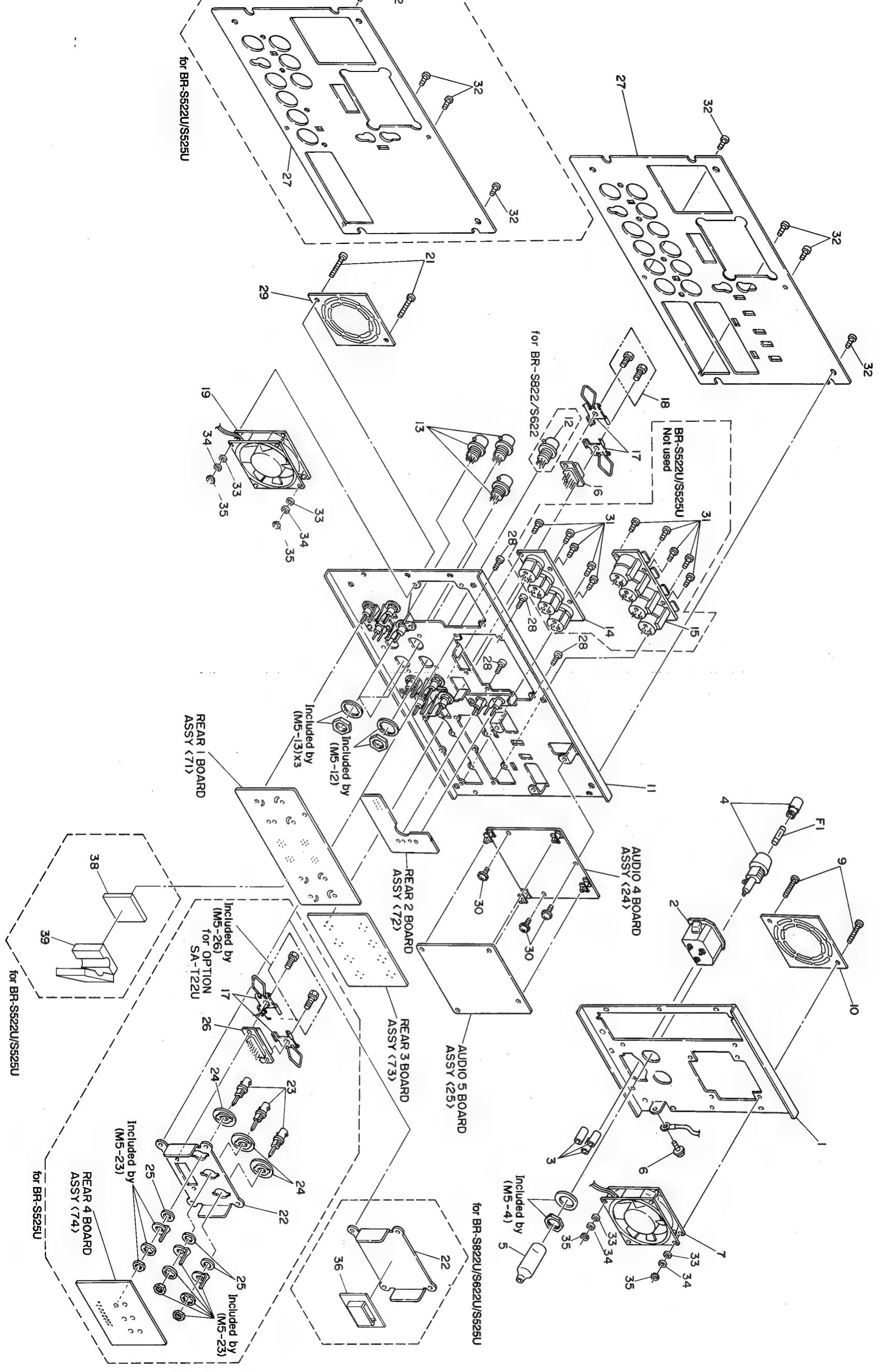
FRAME ASSEMBLY M4

M4 MM □ □ □

#	REF No.	PART No.	PART NAME, DESCRIPTION	#	REF No.	PART No.	PART NAME, DESCRIPTION

FRAME ASSEMBLY <M4>							
1	PRD20354A-06	MECHA HOLDER ASSY		29	PRD43709	BRACKET	
1A	PU4985-4	WIRE CLAMP		30	PRD43709-02	BRACKET	
1B	SBST3006Z	SCREW		31	PRD30857	INSULATOR	
2	PRD20374A-06	LEFT STAY ASSY		33	PU49486	WIRE CLAMP	
2A	PGZ00493-03	GUIDE RAIL		35	PU49485-2	WIRE CLAMP	
2B	PU49881	EDGE COVER					
2C	PU43147-3	WIRE SADDLE, X2					
2D	PRD30030-70	PAD					
3	PRD20375A-07	RIGHT STAY ASSY					
3A	PGZ00493-03	GUIDE RAIL					
3B	PU49881	EDGE COVER					
3C	PGZ00605	BOARD SPACER, X2					
3D	PGZ00606	BOARD HOLDER, X2					
3E	PU43147-3	WIRE SADDLE, X2					
4	PRD20378B	CENTER BRACKET ASSY					
4A	PU48016-2	M CLAMP					
5	PRD20368A-07	CENTER FRAME ASSY					
5A	PU43172-9-120	NYLON GROMMET					
5B	PGZ00452-02	WIRE CLAMP, X4					
5C	PU43172-9-65	NYLON GROMMET					
5D	PGZ00493-02	GUIDE RAIL, X14					
6	SBST3006Z	SCREW, X65					
7	PRD20376A-01	GUIDE FRAME ASSY					
7A	PGZ00493-03	GUIDE RAIL					
8	PRD20377A-03	POWER FRAME ASSY					
8A	PGZ00493-03	GUIDE RAIL					
8B	PU43135-1-100	NYLON EDGING					
9	PRD20367A-03	REAR FRAME(C)ASSY					
9A	PGZ00493-02	GUIDE RAIL, X10					
10	PRD10237-01-03	LEFT SIDE FRAME					
11	PRD10273A-01	RIGHT SIDE FRAME ASSY					
11A	PU43153-1-200	NYLON EDGING					
12	PRD10248A-04	FRONT FRAME ASSY					
12A	PU43172-9-89	NYLON GROMMET					
13	SPST3006M	SCREW, X4					
14	PRD30736-03-05	SUB PANEL(A), S822U/S622U					
14	PRD30736-02-05	SUB PANEL(A), S522U					
14	PRD30736-04-05	SUB PANEL(A), S525U					
15	PRD43433	SUB PANEL(B)					
16	PRD30739-01-04	POWER SWITCH BRACKET ASSY					
17	PRD43708	TOP PLATE(R)					
18	PRD30743A-01	FRONT BRACKET ASSY					
18A	PGZ00493-02	GUIDE RAIL, X4					
19	PRD43816	FOOT, X4					
20	SBST3010Z	SCREW, X4					
21	PGZ01459-01-05	SWITCHING REGULATOR					
21A	PU59311	WIRE CLAMP, X3					
22	DPSP4008Z	ASSY SCREW, X2					
23	LPSP3006Z	SCREW, X2					
24	GBST3006Z	ASSY SCREW, X5					
25	PGZ00479	SEESAW SWITCH					
26	PRD42023	SWITCH COVER					
27	PRD30836	CONNECTOR STAY					
28	PRD43700	CORNER BRACKET, X3					





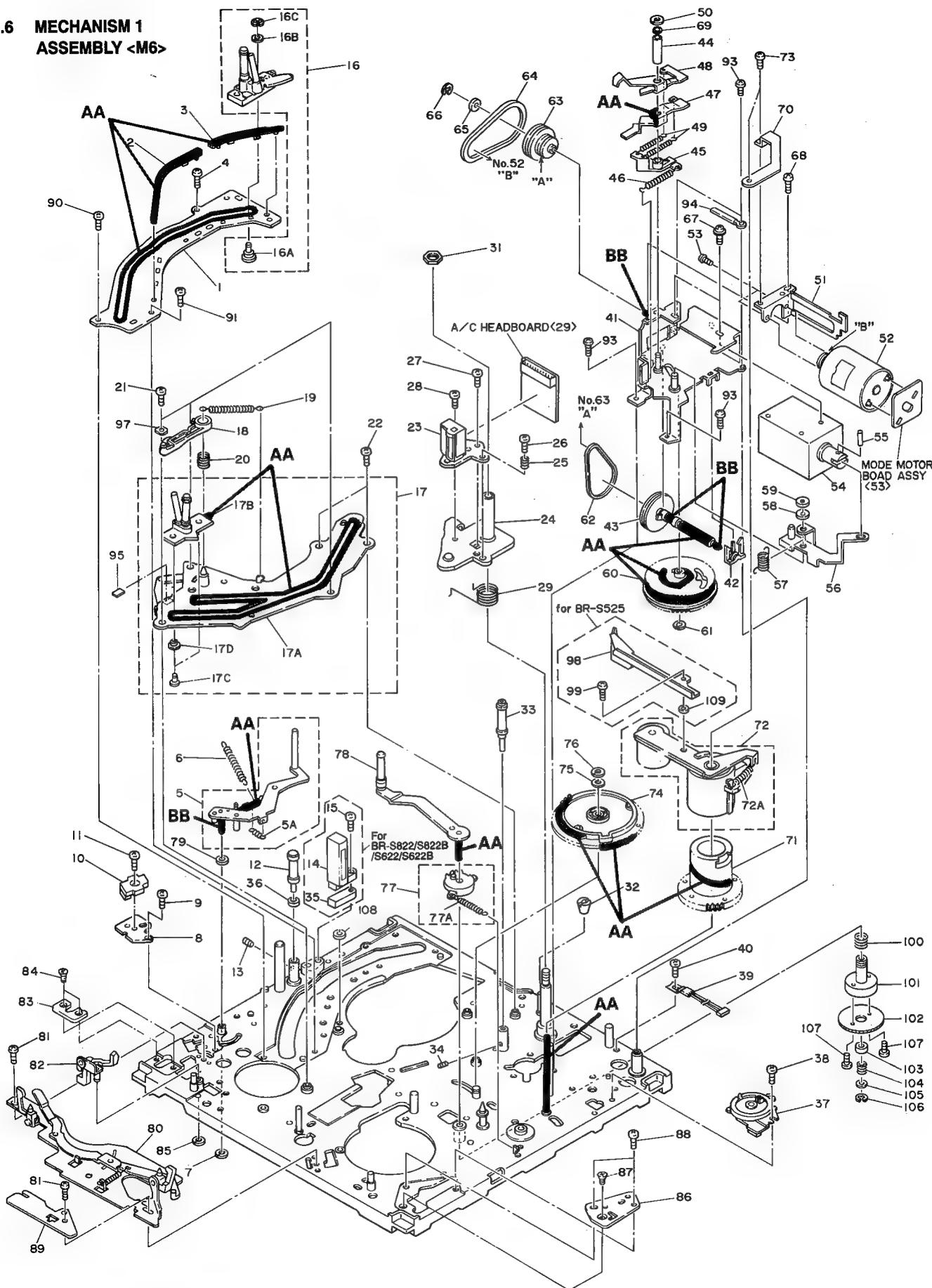
REAR BRACKET ASSEMBLY M5**M5MM□□□□**

#△ REF No. PART No. PART NAME, DESCRIPTION

REAR BRACKET ASSEMBLY <M5>

1	PRD20365-01-04	REAR FRAME(B)
△ 2	PGZ00760	AC INLET
3	QXT695H-025	V.TUBE, X3
△ 4	QMG0301-004	FUSE HOLDER
△ 5	PU50316	FUSE COVER
△ 6	DPSP4008N	SCREW
△ 7	PGZ01137	FAN MOTOR
△	or PGZ01974	FAN MOTOR
9	SDSP3025R	SCREW, X2
	or SDSP3035R	SCREW, X2
10	PRD43465-02	FAN GUARD
11	PGZ01822	REAR FRAME(A) ASSY, S822U/S622U
11	PGZ01822-02	REAR FRAME(A) ASSY, S522U/S525U
12	PGZ01729	7P CONNECTOR, S822U/S622U INCL.11
	or PGZ00592	7P CONNECTOR, S822U/S622U INCL.11
13	PGZ01730	7P CONNECTOR(OUT), X3 INCL.11
	or PGZ00593	7P CONNECTOR(OUT), X3 INCL.11
14	PGZ01208	XLR CONNECTOR, MALE
15	PGZ01209	XLR CONNECTOR, FEMALE (S822U/S622U)
16	PGZ01733	9P CONNECTOR, REMOTE, INCL.11
	or PGZ00915	9P CONNECTOR, REMOTE, INCL.11
17	PGZ01734	SPRING LOCK, X2, S822U/S622U/S522U
	or PGZ00924	SPRING LOCK, X2, S822U/S622U/S522U
17	PGZ01734	SPRING LOCK, X4, S525U INCL.11
	or PGZ00924	SPRING LOCK, X4, S525U INCL.11
18	PGZ01735	SCREW, 2 IN 1 INCL.11
	or PGZ00925	SCREW, 2 IN 1 INCL.11
△ 19	PGZ01137	FAN MOTOR
	or PGZ01974	FAN MOTOR
21	SDSP3025R	SCREW, X2
△ 22	PRD43424-01-04	REAR PANEL(D), S822U/S622U/S522U
22	PGZ01698-01-01	REAR PANEL(D)ASSY, S525U
23	PGZ00440	BNC CONNECTOR, X3, S525U
24	PU48611	RING, X3, S525U
25	Q03093-439	WASHER, X3, S525U
26	PGZ00755	15P CONNECTOR, TBC REMOTE
26	PGZ01732	15P CONNECTOR(D), S525U
△ 27	PRD30729-02-06	REAR PANEL(A), S822U/S622U
27	PRD30729-04	REAR PANEL(A), S522U
△ 27	PRD30729-04-06	REAR PANEL(A), S525U
28	SDSP3006R	SCREW, X4
29	PRD43465-02	FAN GUARD
30	GBST3006Z	SCREW, X3
31	SPSP2605N	SCREW, X10, S822U/S622U
31	SPSP2605N	SCREW, X5, S522U/S525U
32	SDSP3006R	SCREW, X4
33	WNS3000N	WASHER, X4
34	WLS3000N	L.WASHER, X4
35	NFS3000Z	NUT, X4
36	PGZ01086	FLAT CABLE CLIP, S822U/S622U/S522U
38	PRD30083-03	SPACER, X2, S522U/S525U
39	PGZ01769-05	FERRITE CORE, S522U/S525U
△ F1	QMF51J1-3R15N	FUSET3.1A

5.6 MECHANISM 1 ASSEMBLY <M6>



Category	JVC part number	MARK
Grease	MOS2-C	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

MECHANISM 1 ASSEMBLY [M6]

[M6][M][M] [] [] [] []

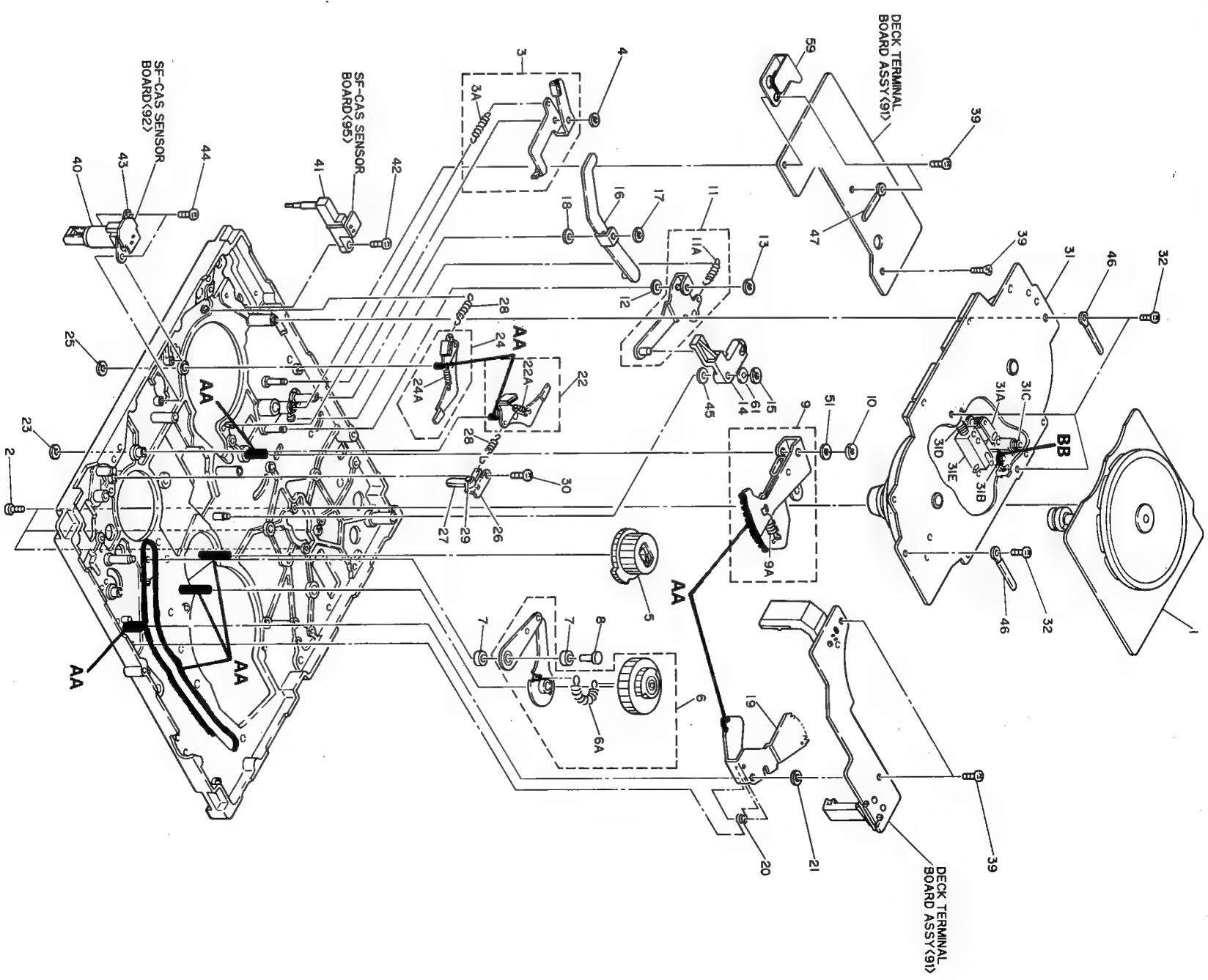
[M6][M][M] [] [] [] []

MECHANISM 1 ASSEMBLY <M6>

# [▲] REF NO.	PART NO.	PART NAME, DESCRIPTION	# [▲] REF NO.	PART NO.	PART NAME, DESCRIPTION
46	PQM30001-313	TENSION SPRING	97	PRD4413-02	STOPPER PLATE
47	PRD4109	LOCK LEVER 2	98	PRD43901-01-02	NOISE SHUTTER, S525U
48	PRD30972	LOCK LEVER 3	99	DPS3006Z	SCREW, S525U
49	PQM30017-6	TENSION SPRING, X2	100	PRD30023-48	COMPRESSION SPRING
50	PQM30017-6	SLIT WASHER			
1	PRD30764-01-05	SUB DECK(S)	101	PRD43800	BLUSHING
2	PQ33994	GUIDE RAIL 1(S)	102	PRD43802	ADJUST GEAR
3	SDST2605Z	SCREW	103	PRD43804	COLLAR
4	PRD44024B-02	TENSION ARM ASSY	104	PRD30023-49	COMPRESSION SPRING
5	PRD30024-65	TENSION SPRING	105	WSS3000Z	WASHER
6	PRD43714	TENSION SPRING	106	REE2500	"E" RING
7	PQM30017	SLIT WASHER	107	SPSP2004Z	SCREW, X2
8	PRD43466-01-02	TENSION SENSOR BASE	108	PRD44141	SPACER
9	SDSP2004Z	SCREW	109	PRD30023-05	WASHER, S525U
10	PU61338	TENSION SENSOR	59	PQM30017-12	WASHER
11	SDSP2604Z	SCREW	60	PQ21313-1-1	SLIT WASHER
12	PRD43721A	GUIDE ROLLER ASSY	61	PQM30017-12	SLIT WASHER
13	YFS2603B	SET SCREW	62	PRD30022-17	BELT
14	PGZ01841	FULL ERASE HEAD, S822U/S622U	63	PRD43968	CONNECT PULLEY
15	SDSP2614Z	SCREW, S822U/S622U	64	PRD30022-18	BELT
16	PRD30821E	POLE BASE (SUPPLY) ASSY	65	Q03093-829	WASHER
16A	PRD43671-01-02	STOPPER(S2)	66	REE1200	E RING
16B	Q03093-829	WASHER	67	DPSP3005Z	SCREW, X2
16C	REE1500	"E" RING	68	SDSP2604Z	SCREW
17	PRD43747A-06	LOADING (TAKE-UP) ASSY	69	Q03093-825	WASHER
17A	PRD43746A-03	GUIDE RAIL ASSY	70	PRD44103	ARM
17B	PRD30864B	POLE BASE (TAKE-UP) ASSY			
17C	PRD43819	SPECIAL SCREW, X2			
17D	PRD43875	COLLAR			
18	PQ34000	C.GUIDE ARM			
19	PQM30001-317	TENSION SPRING			
20	PQM30002-207	C SPRING			
21	SDST2605Z	SCREW, X3	71	PQ21312	PROLLER CAM
22	SDST2608Z	SCREW, X2			
23	PGZ01840	AUDIO/CONTROL HEAD			
24	PRD44167A	HEAD ARM ASSY			
25	PQM30002-197	COMPRESSION SPRING			
26	SDSP2612Z	SCREW			
27	PQ44621	SPECIAL SCREW			
28	PQ43687B	SPECIAL SCREW			
29	PQ44119	TORSION SPRING			
31	PQ40353	NYLON NUT	81	SDSP2605Z	SCREW, X2
32	PRD44241	TAPER NUT	82	PRD44184A	REC SAFETY ASSY
33	PRD44151A-01	GUIDE ROLLER ASSY	83	PRD43890	SOCKET L
34	PQ45295	SPECIAL SCREW	84	SSSP2604Z	SCREW, X2
35	PQ45325	FULL ERASE HEAD BASE, S822U/S622U	85	PQM30017-6	SLIT WASHER
36	PQ45294	"O" RING	86	PRD43889	SOCKET R
37	PU61339-1-1	ROTARY ENCODER	87	SSSP2604Z	SCREW
38	SDSP2004Z	SCREW	88	SDSP2604Z	SCREW, X2
39	PU61357	DEW SENSOR	89	PRD44243A	ADJUST PLATE ASSY
40	SDSP2004Z	SCREW	90	SDSP2608M	SCREW
41	PRD44105A	SOLENOID BRACKET ASSY	91	SPSH2635M	MINI SCREW
42	PQ44129	WORM BEARING 2	93	SDST2605Z	SCREW, X4
43	PRD44122A	W.GEAR ASSY	94	PU49485-4	WIRE CLAMP
44	PRD44108	COLLAR	95	PRD43826	SPACER
45	PQ33992-1-1	LOCK LEVER 1			

# [▲] REF NO.	PART NO.	PART NAME, DESCRIPTION
1	PRD30764-01-05	SUB DECK(S)
2	PQ33994	GUIDE RAIL 1(S)
3	SDST2605Z	SCREW
4	PRD44024B-02	TENSION ARM ASSY
5	PRD30024-65	TENSION SPRING
6	PRD43714	TENSION SPRING
7	PQM30017	SLIT WASHER
8	PRD43466-01-02	TENSION SENSOR BASE
9	SDSP2004Z	SCREW
10	PU61338	TENSION SENSOR
11	SDSP2604Z	SCREW
12	PRD43721A	GUIDE ROLLER ASSY
13	YFS2603B	SET SCREW
14	PGZ01841	FULL ERASE HEAD, S822U/S622U
15	SDSP2614Z	SCREW, S822U/S622U
16	PRD30821E	POLE BASE (SUPPLY) ASSY
16A	PRD43671-01-02	STOPPER(S2)
16B	Q03093-829	WASHER
16C	REE1500	"E" RING
17	PRD43747A-06	LOADING (TAKE-UP) ASSY
17A	PRD43746A-03	GUIDE RAIL ASSY
17B	PRD30864B	POLE BASE (TAKE-UP) ASSY
17C	PRD43819	SPECIAL SCREW, X2
17D	PRD43875	COLLAR
18	PQ34000	C.GUIDE ARM
19	PQM30001-317	TENSION SPRING
20	PQM30002-207	C SPRING
21	SDST2605Z	SCREW, X3
22	SDST2608Z	SCREW, X2
23	PGZ01840	AUDIO/CONTROL HEAD
24	PRD44167A	HEAD ARM ASSY
25	PQM30002-197	COMPRESSION SPRING
26	SDSP2612Z	SCREW
27	PQ44621	SPECIAL SCREW
28	PQ43687B	SPECIAL SCREW
29	PQ44119	TORSION SPRING
31	PQ40353	NYLON NUT
32	PRD44241	TAPER NUT
33	PRD44151A-01	GUIDE ROLLER ASSY
34	PQ45295	SPECIAL SCREW
35	PQ45325	FULL ERASE HEAD BASE, S822U/S622U
36	PQ45294	"O" RING
37	PU61339-1-1	ROTARY ENCODER
38	SDSP2004Z	SCREW
39	PU61357	DEW SENSOR
40	SDSP2004Z	SCREW
41	PRD44105A	SOLENOID BRACKET ASSY
42	PQ44129	WORM BEARING 2
43	PRD44122A	W.GEAR ASSY
44	PRD44108	COLLAR
45	PQ33992-1-1	LOCK LEVER 1

5.7 MECHANISM 2 ASSEMBLY <M7>



MECHANISM 2 ASSEMBLY M7
M7 MM□□□□

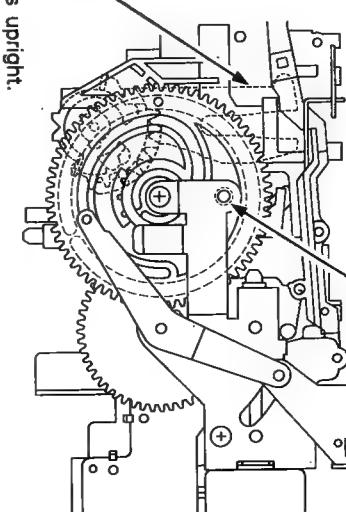
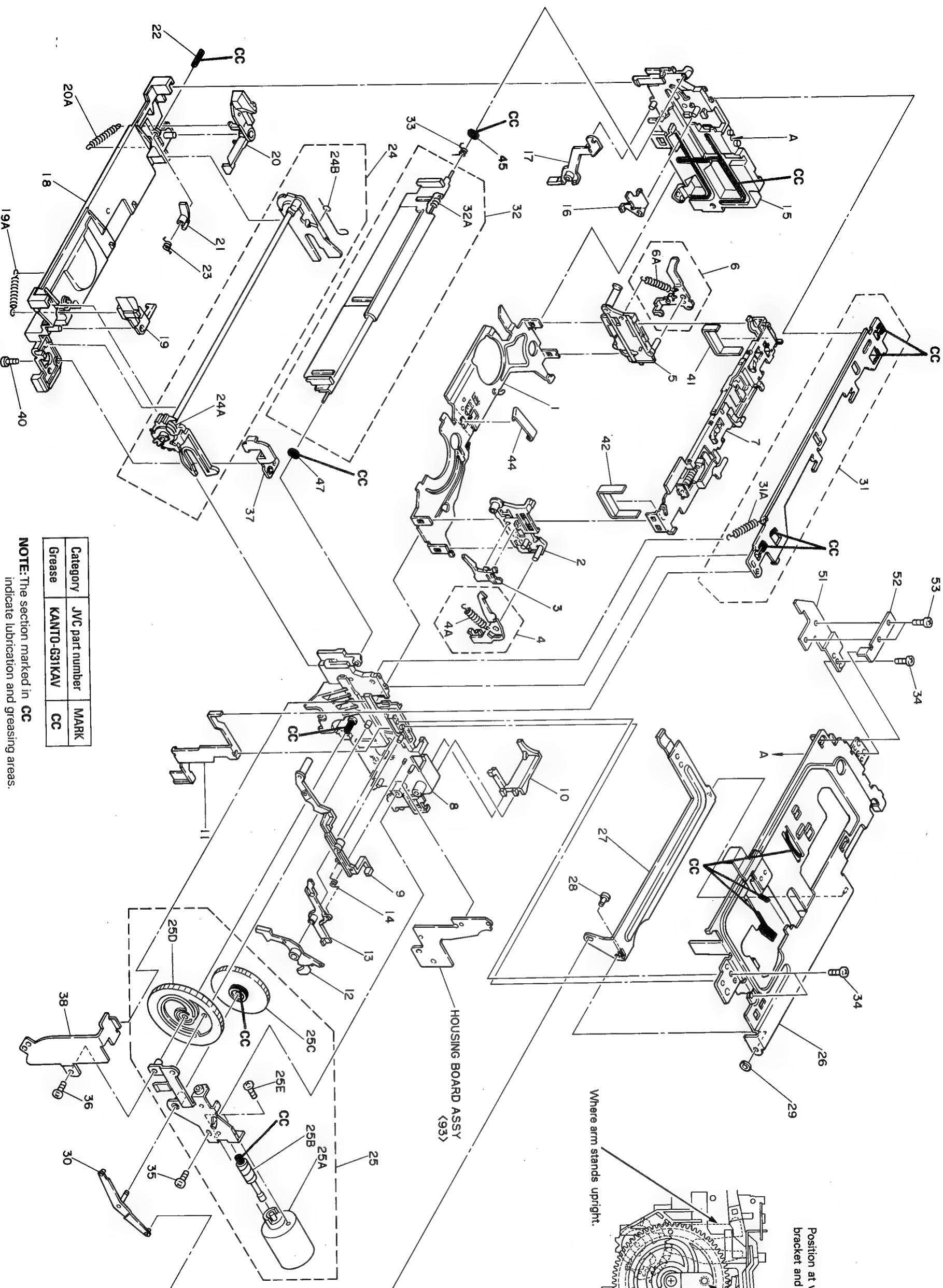
# △	REF No.	PART No.	PART NAME, DESCRIPTION	# △	REF No.	PART No.	PART NAME, DESCRIPTION

MECHANISM 2 ASSEMBLY <M7>							
△ 1	PGZ01535-01-01	CAPSTAN MOTOR		41	PU61008	CASSETTE SWITCH	
2	SDSP2608Z	SCREW, X3		42	SDSP2605Z	SCREW	
3	PRD43479A-01	R.BRAKE ASS'Y		43	PRD43467-01-01	C.S.SW BASE	
3A	PRD30024-58	TENSION SPRING		44	SDST2605Z	SCREW, X2	
4	PQM30017-6	SLIT WASHER		45	Q03093-825	WASHER	
5	PQ34033	LOADING GEAR(T)		46	PU49485-4	WIRE CLAMP, X2	
6	PRD43473A-03	L.GEAR(S)ASS'Y		47	PU49485-4	WIRE CLAMP	
6A	PQM30001-318	TENSION SPRING		51	Q03093-833	WASHER	
7	PRD44019	COLLAR		59	PRD44006A	STOPPER ASSY	
8	PRD43818	SPECIAL SCREW					
9	PQ45306B-3	ARM GEAR ASS'Y					
9A	PQM30001-320	TENSION SPRING					
10	REE3000	"E"RING					
11	PQ45304A	F.L.LEVER ASS'Y					
11A	PQM30001-319	TENSION SPRING					
12	Q03093-825	WASHER					
13	PQM30017-6	SLIT WASHER					
14	PQ34005-1-2	LOCK ARM					
15	PQM30017-6	SLIT WASHER					
16	PRD43464A	C.H.LEVER ASS'Y					
17	PQM30017-6	SLIT WASHER					
18	Q03093-825	WASHER					
19	PQ34007	CANCEL LEVER					
20	PQ45313	TORSION SPRING					
21	PQM30017-12	SLIT WASHER					
22	PRD43388A-02	B.LEVER(L)ASS'Y					
22A	PRD30024-53	TENSION SPRING					
23	PQM30017-6	SLIT WASHER					
24	PRD43395A-02	B.LEVER(R)ASS'Y					
24A	PRD30024-53	TENSION SPRING					
25	PQM30017-6	SLIT WASHER					
26	PRD43397A-01	LEVER BASE ASSY					
27	PRD43400	F/C LEVER					
28	PRD43401	TENSION SPRING, X2					
29	PQM30017-25	SLIT WASHER					
30	SDST2604Z	SCREW					
△ 31	PGZ01541A-04	REEL MOTOR					
31A	PGZ01541-001	IDLER GEAR ASSY					
31B	PGZ01541-002	LED HOLDER ASSY					
31C	PGZ01541-003	COMPRESSION SPRING					
31D	PGZ01541-004	COMPRESSION SPRING					
31E	PGZ01541-005	SOLENOID					
32	SDST2606Z	SCREW, X4					
39	SDST2605Z	SCREW, X5					
40	PU61174	CASSETTE SWITCH					

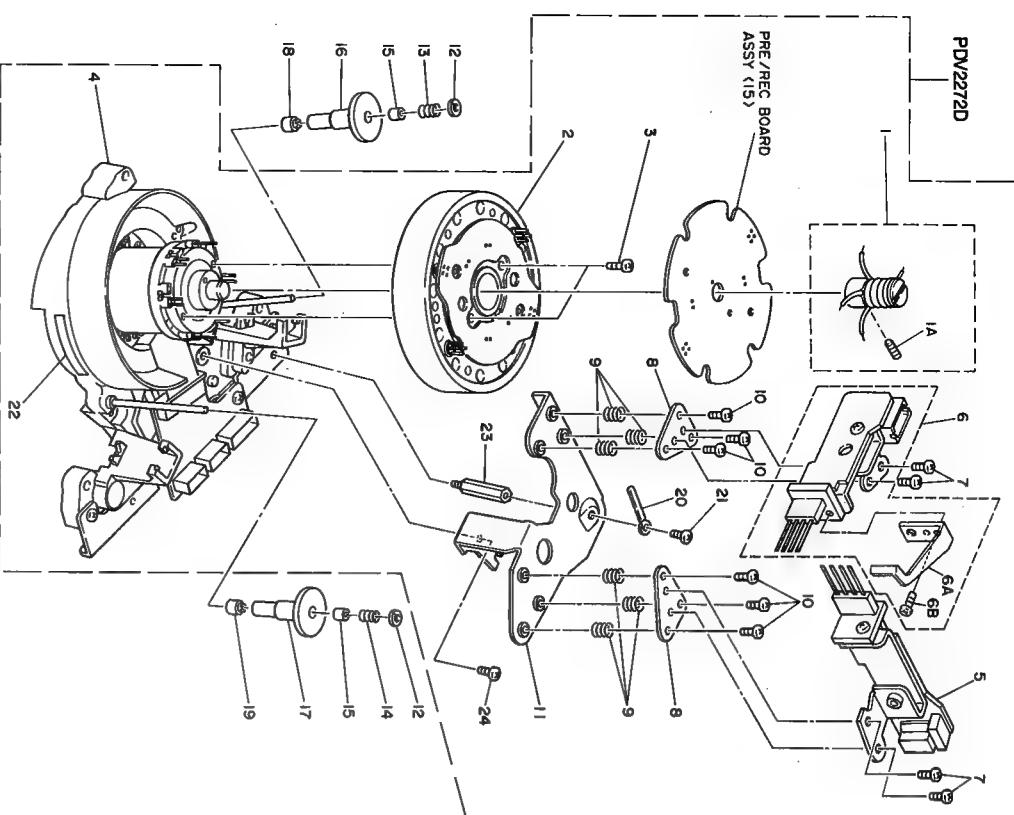
CASSETTE HOUSING ASSEMBLY M8
M8 MM

#  REF No.	PART No.	PART NAME, DESCRIPTION	#  REF No.	PART No.	PART NAME, DESCRIPTION
CASSETTE HOUSING ASSEMBLY <M8>					

0	PGS20745B-18	CASSETTE HOUSING ASSY	41	PRD43776-01-01	TEPHRON SHEET
1	PQ34092A-03	CASSETTE HOLDER ASSY	42	PRD43776-02-01	TEPHRON SHEET
2	PQ11278-01-01	SIDE HOLDER(R)	44	PRD30030-87	PAD
3	PQ45459	LID OPENER	45	Q03093-828	WASHER
4	PQ43596A-5	LOCK LEVER(R) ASSY	46	PRD30030-71	PAD
4A	PQ43597-1-5	TENSION SPRING	47	Q03093-826	WASHER
5	PQ11279	SIDE HOLDER(L)	48	PRD30030-72	PAD
6	PQ45539A-01	LOCK LEVER(L) ASSY	51	PRD44177	C DOOR STOPPER
6A	PQ43597-2	TENSION SPRING	52	PRD44178	STOPPER
7	PQ21327A-09	HOLDER STAY ASSY	53	SDSP2603Z	SCREW, X2
8	PQ11281-01-06	HOUSING STAY(R)			
9	PQ34096	DOOR SENSOR			
10	PQ34097	LID GUIDE			
11	PQ45477	FC CHENGE LEVER			
12	PQ34098	SENSOR LEVER			
13	PQ34099	C INSERT LEVER			
14	PQ45478	TORSION SPRING			
15	PQ11282-01-07	HOUSING STAY(L)			
16	PQ45479-01-02	DOOR STOPPER			
17	PQ34100	DOOR OPENER			
18	PQ11283-01-03	FRONT BRACKET			
19	PQ45480A-02	DOOR LOCK(R) ASSY			
19A	PQM30001-340	TENSION SPRING			
20	PQ45481A-03	DOOR LOCK(L) ASSY			
20A	PQM30001-340	TENSION SPRING			
21	PQ45482	C DOOR LOCK			
22	PQM30015-93	SHAFT			
23	PQ45483-01-01	TORSION SPRING			
24	PQ34103A-04	MAIN ARM ASSY			
24A	PRD43806	TORSION SPRING			
24B	PQ43605	TORSION SPRING			
25	PQ34107A-03	DRIVE UNIT ASSY			
25A	PQ45489A	MOTOR ASSY			
25B	PQ45474	WORM GEAR			
25C	PQ34109-01-01	CONNECT GEAR			
25D	PQ34110-01-01	IDLER CAM			
25E	SPSP3003Z	SCREW, X2			
26	PQ34111A-05	TOP FRAME ASSY			
27	PQ34112A-01	HOLD PLATE ASSY			
28	PQ45464	PIN			
29	PQM30017-25	SLIT WASHER			
30	PQ45493A	HOLD LEVER ASSY			
31	PQ34128A-02	FC PLATE ASSY			
31A	PQM30001-341	TENSION SPRING			
32	PQ34114A-08	DOOR ASSY			
32A	PQ45496-01-02	TORSION SPRING			
33	PRD44021	TORSION SPRING			
34	SDSF2606Z	SCREW, X3			
35	SDSF2608Z	SCREW, X1			
36	SDSF2612Z	SCREW			
37	PRD43729	BASE BRACKET			
38	PRD43730	GEAR BRACKET			
40	SDSP2603Z	SCREW			

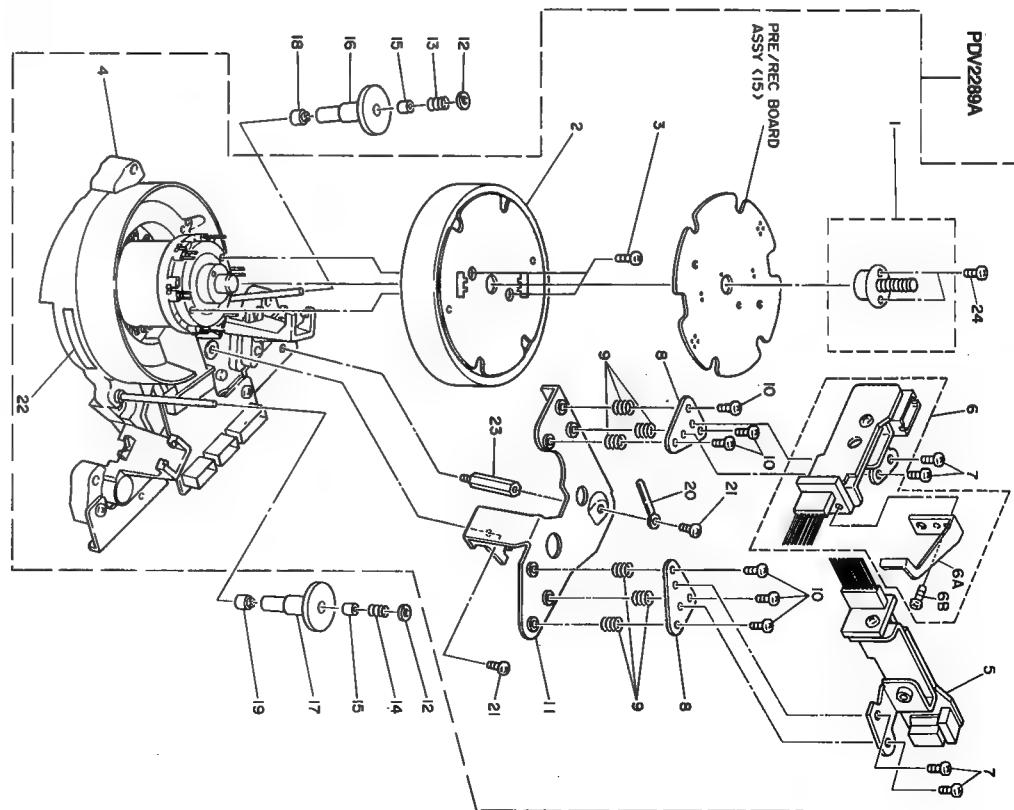


ASSEMBLY (S822U/S622U/S522U) M9/A



M 9 A M M

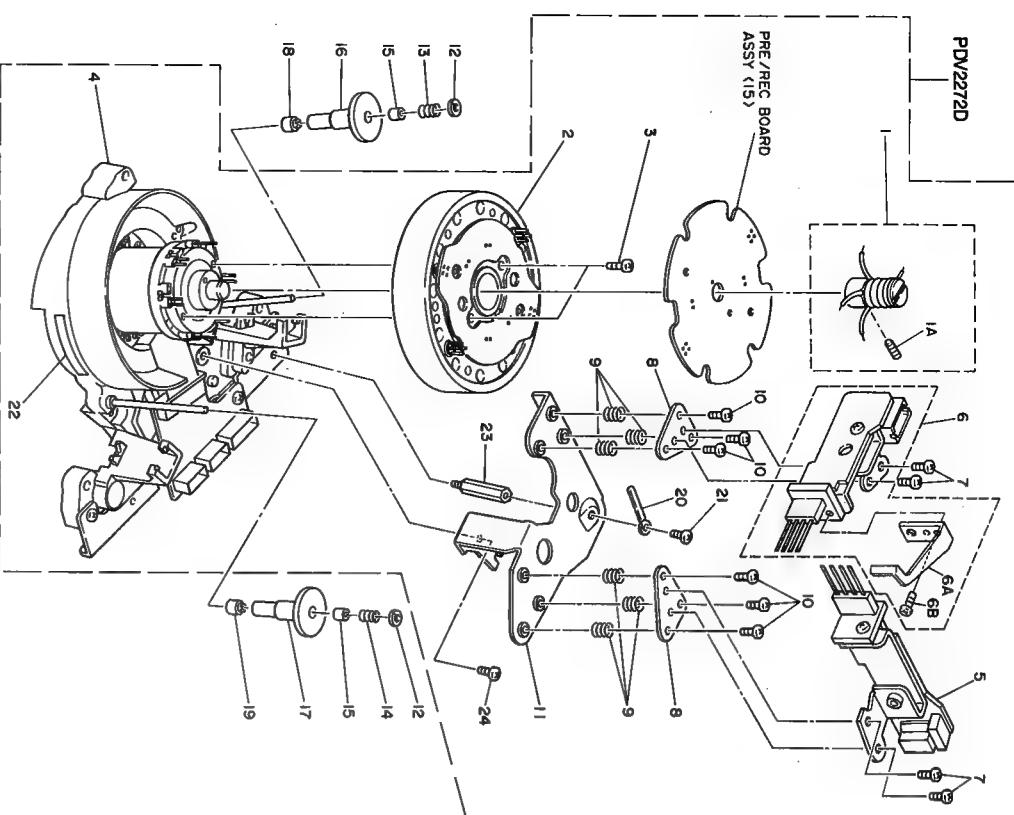
DRUM ASSEMBLY (S525U) M9B



IM ASSEMBLY (S822U/S622U/S522U) < M9A >			
#	REF No.	PART No.	PART NAME
8	PRD43978	M.PLATE, X	M.PLATE, X
9	PRD30023-51	COMPRESSOR	COMPRESSOR
10	BYS2066FS	S.BOLT, X6	S.BOLT, X6
PDV2272D DRUM ASSY			
11	PRD30921	BRUSH BASE	BRUSH BASE
12	PQM30017-25	SLIT WASH	SLIT WASH
13	PRD30023-42	COMPRESSOR	COMPRESSOR
14	PRD30023-43	COLLAR, X	COLLAR, X
15	PRD43675	INERTIA RIG	INERTIA RIG
16	PGZ01667	INERTIA RIG	INERTIA RIG
17	PGZ01667-02	COLLAR(S)S	COLLAR(S)S
18	PRD43675-02	COLLAR(UT)	COLLAR(UT)
19	PRD43675-03-01	WIRE CLAMP	WIRE CLAMP
20	PU49485-3		
PRD43986A BRUSH ASSY(A)			
PRD43986B BRUSH ASSY(B)	21	PRD30027-04	SCREW
PRD44176 BRUSH PROTECTOR	22	PDM4067	PART NO. L
SPSP2006Z SCREW	23	PRD43979	STUD
BYS2066FS S.BOLT, X4	24	PRD30027-04	SPECIAL

M 9 A M M

DRUM ASSEMBLY (S525U) M9B



SECTION 6

ELECTRICAL PARTS LIST

Notes:

- Parts identified by the Δ symbol critical for safety. Replace only with parts having the specified parts numbers.
- Since this section only the following boards which are different from those of original models.
 - MOTHER-1 board
 - MOTHER-2 board
 - AUDIO-3 board
 - AVM/ON SCREEN board

For other board assemblies, refer to the service manual No. 9246C for the BR-S822U/BR-S622U/BR-S522U, No. 9272 for the BR-S525U.

- In case Model Name(Example:S822U)indicate on the header or Part Name column of the P.C. board assembly lists, event the part or the P.C. board assembly is for exclusive use of the specified models.

Example 1 :

R147 QRSA08J-332YN RESISTOR, S822U/S622U 3.3 k Ω , 1/10W

In this case, the resistor (R147) is used in the BR-S822U, the BR-S622U only.

Example 2 :

—AUDIO-6 BOARD ASS'Y, BR-S822U/BR-S622U —

PWBA PRK30066A1 AUDIO-6 BOARD ASS'Y

In the above case, the AUDIO-6 Board Ass'y is the circuit board assembly that exclusively used for the BR-S822U, the BR-S622U.

Parts without any remark are used in both the models in common.

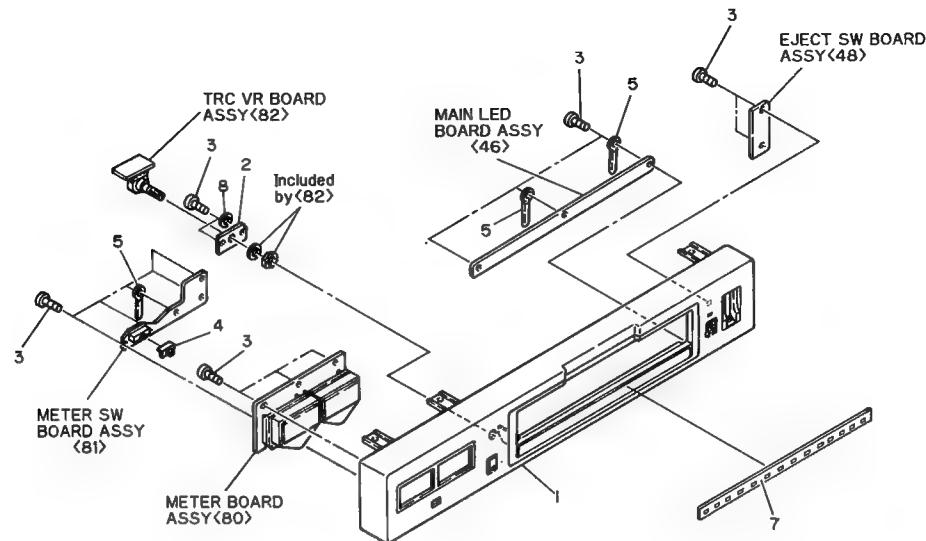
#	REF No.	PART No.	PART NAME, DESCRIPTION	#	REF No.	PART No.	PART NAME, DESCRIPTION
- BR-S 822U / BR-S 622U / BR-S 522U -							
MOTHER-1 BOARD ASSEMBLY <01>							
PWBA	PRK10113F-01	MOTHER-1 BOARD ASSY, S822 / S622	PWBA	PRK10149D	MOTHER-1 BOARD ASSY		
PWBA	PRK10113B-02	MOTHER-1 BOARD ASSY, S522					
CL1	PEME0802	CLAMP, x 7	CL1	PEME0802	CLAMP, x 6		
CL2	PGZ01377-03	STYLE PIN, x 2					
CN1	PGZ01783-44	FEMALE CONNECTOR	CN1	PGZ01783-44	FEMALE CONNECTOR		
CN2	PGZ01783-44	FEMALE CONNECTOR	CN2	PGZ01783-44	FEMALE CONNECTOR		
CN3	PGZ01783-44	FEMALE CONNECTOR	CN3	PGZ01783-44	FEMALE CONNECTOR		
CN4	PGZ01783-44	FEMALE CONNECTOR	CN4	PGZ01783-44	FEMALE CONNECTOR		
CN5	PGZ01783-44	FEMALE CONNECTOR	CN5	PGZ01783-44	CONNECTOR		
CN6	PGZ01783-44	FEMALE CONNECTOR	CN6	PGZ01783-44	CONNECTOR		
CN7	PGZ01783-44	FEMALE CONNECTOR	CN7	PGZ01783-44	CONNECTOR		
CN8	PGZ01783-44	FEMALE CONNECTOR	CN8	PGZ01783-44	CONNECTOR		
CN9	PU59513-8	CONNECTOR	CN9	PU59513-8	CONNECTOR		
CN10	PU59513-2	CONNECTOR	CN10	PU59513-2	CONNECTOR		
CN11	PU59513-8	CONNECTOR	CN11	PU59513-8	CONNECTOR		
CN12	PU59513-5	CONNECTOR	CN12	PU59513-5	CONNECTOR		
CN13	PU59513-6	CONNECTOR	CN13	PU59513-6	CONNECTOR		
CN14	PU59513-7	CONNECTOR	CN14	PU59513-7	CONNECTOR		
CN15	PU59513-4Y	CONNECTOR	CN15	PU59513-4Y	CONNECTOR		
CN17	PU59513-5	CONNECTOR	CN17	PU59513-5	CONNECTOR		
CN18	PU59513-8	CONNECTOR	CN18	PU59513-8	CONNECTOR		
CN19	PU59513-7	CONNECTOR	CN19	PU59513-7	CONNECTOR		
CN20	PU59513-2	CONNECTOR	CN20	PU59513-2	CONNECTOR		
CN21	PU60329-120	CONNECTOR	CN21	PU60329-120	CONNECTOR		
CN22	PU60329-120	CONNECTOR	CN22	PU60329-120	CONNECTOR		
CN23	PU59513-2R	CONNECTOR	CN23	PU59513-2R	CONNECTOR		
CN24	PU59513-6	CONNECTOR	CN24	PU59513-6	CONNECTOR		
CN25	PU59513-2Y	CONNECTOR, S822 / S622	CN27	PU59513-4	CONNECTOR		
CN26	PU59513-2R	CONNECTOR, S822 / S622	CN28	PU59513-2R	CONNECTOR		
CN27	PU59513-4	CONNECTOR	CN29	PU59513-2	CONNECTOR		
CN28	PU59513-2R	CONNECTOR	CN30	PU59513-4R	CONNECTOR		
CN29	PU59513-2	CONNECTOR	CN31	PU59513-2	CONNECTOR		
CN30	PU59513-4R	CONNECTOR	CN32	PU59513-5	CONNECTOR		
CN31	PU59513-2	CONNECTOR	CN33	PU59513-2	CONNECTOR		
CN32	PU59513-5	CONNECTOR	CN34	PU59513-2R	CONNECTOR		
CN33	PU59513-2	CONNECTOR	CN35	PU59513-5R	CONNECTOR		
CN34	PU59513-2R	CONNECTOR	CN37	PU59513-2R	CONNECTOR		
CN35	PU59513-5R	CONNECTOR	CN38	PU59513-2	CONNECTOR		
CN36	PU59513-2	CONNECTOR, S822 / S622	CN39	PU59513-2R	CONNECTOR		
CN37	PU59513-2R	CONNECTOR	CN40	PU59513-2Y	CONNECTOR		
CN38	PU59513-2	CONNECTOR	CN41	PU59513-2	CONNECTOR		
CN39	PU59513-2R	CONNECTOR	CN42	PU59513-2	CONNECTOR		
CN40	PU59513-2Y	CONNECTOR	CN43	PU59513-3	CONNECTOR		
CN41	PU59513-2	CONNECTOR	CN44	PU59513-2	CONNECTOR		
CN45	PU58844-2	CONNECTOR	CN45	PU58844-2	CONNECTOR		
CN80	PU59513-2	CONNECTOR	CN80	PU59513-2	CONNECTOR		

#	REF No.	PART No.	PART NAME, DESCRIPTION	#	REF No.	PART No.	PART NAME, DESCRIPTION	
MOTHER-2 BOARD ASSEMBLY <02>								
PWBA	PRK10111F-01	MOTHER-2 BOARD ASSY, S822/S622		CN41	PU59513-2	CONNECTOR, S822/S622		
PWBA	PRK10111B-02	MOTHER-2 BOARD ASSY, S522		CN42	PU59513-4Y	CONNECTOR		
PWBA	PRK10111D-02	MOTHER-2 BOARD ASSY, S525		CN44	PU59513-4Y	CONNECTOR		
				CN45	PU59513-4Y	CONNECTOR		
				CN46	PU59513-4	CONNECTOR		
				CN47	PU59513-5	CONNECTOR		
				CN48	PU59513-3	CONNECTOR		
				CN49	PU59513-3R	CONNECTOR		
				CN50	PU59513-8	CONNECTOR		
R1	QRD161J-151	RESISTOR	150Ω, 1/6W	CN51	PU58844-5	CONNECTOR		
CL1	PEME0802	CLAMP, × 8		CN52	PU59513-6	CONNECTOR		
CL2	PGZ01377-03	STYLE PIN, × 3		CN53	PU59513-4R	CONNECTOR		
SPC1	PRD42222	INSULATOR		CN54	PU59513-5R	CONNECTOR		
SPC2	PRD30030-59	PAD		CN55	PU59513-5	CONNECTOR		
WR1	PGW0205-050200	FLAT WIRE, NOT INCLUDED		CN56	PU58844-4R	CONNECTOR		
WR2	PGW0201-050201	PARALLEL WIRE, NOT INCLUDED		CN57	PU58844-4Y	CONNECTOR		
				CN58	PU58844-3	CONNECTOR		
				CN59	PU58844-4	CONNECTOR		
				CN60	PU58844-2	CONNECTOR		
CN1	PGZ01783-64	FEMALE CONNECTOR		CN61	PU58844-4	CONNECTOR		
CN2	PGZ01783-64	FEMALE CONNECTOR		CN62	PU58844-4R	CONNECTOR		
CN3	PGZ01783-64	FEMALE CONNECTOR		CN63	PU58844-6	CONNECTOR		
CN4	PGZ01783-64	FEMALE CONNECTOR		CN64	PEMC0769-004	CONNECTOR		
CN5	PGZ01783-64	FEMALE CONNECTOR		CN65	PEMC0769-002	CONNECTOR		
CN6	PGZ01783-64	FEMALE CONNECTOR		CN66	PU59513-2R	CONNECTOR, S822/S622		
CN7	PGZ01783-64	FEMALE CONNECTOR		CN67	PU59513-2	CONNECTOR, S822/S622		
CN8	PGZ01783-64	FEMALE CONNECTOR		CN68	PU59513-4R	CONNECTOR		
CN9	PGZ01783-64	FEMALE CONNECTOR		CN69	PU59513-2	CONNECTOR, S822/S622		
CN10	PGZ01783-64	FEMALE CONNECTOR		CN70	PU59513-6	CONNECTOR		
CN11	PU60329-120	CONNECTOR		CN71	PU59513-5	CONNECTOR		
CN12	PU59513-2	CONNECTOR		CN72	PU59513-7	CONNECTOR		
CN13	PU60329-120	CONNECTOR		CN73	PU59513-2	CONNECTOR		
CN14	PU59513-2Y	CONNECTOR, S822/S622		CN74	PU60251-4	CONNECTOR		
CN15	PU59513-7	CONNECTOR		CN75	PU59513-4	CONNECTOR, S522/S525		
CN16	PU59513-4	CONNECTOR		CN76	PU59513-2Y	CONNECTOR		
CN17	PU58844-6	CONNECTOR		CN77	PU59513-2	CONNECTOR		
CN18	PU59513-3	CONNECTOR		CN78	PU58844-7	CONNECTOR, S525		
CN19	PU59513-2	CONNECTOR		CN79	PU59513-2	CONNECTOR, S525		
CN20	PU58844-10	CONNECTOR		CN80	PU59513-2	CONNECTOR, S522/S525		
CN21	PU59513-8	CONNECTOR		AUDIO-3 BOARD ASSEMBLY <23>				
CN22	PU59513-2	CONNECTOR		PWBA	PRK10115A	AUDIO-3 BOARD ASSY, S822/S622		
CN23	PU58844-9	CONNECTOR		PWBA	PRK10115C	AUDIO-3 BOARD ASSY, S522/S525		
CN24	PU59513-2	CONNECTOR, S822/S622						
CN26	PU59513-2Y	CONNECTOR, S822/S622		IC1	JCP0038	IC		
CN27	PU59513-5	CONNECTOR		IC2	M5278D12	IC		
CN28	PU59513-4	CONNECTOR, S822/S622		IC3	M5278D05	IC		
CN29	PU59513-4	CONNECTOR		IC4	M5278D05	IC, S822/S622		
CN30	PU59513-6	CONNECTOR		IC5	M5278D09	IC, S822/S622		
CN31	PU59513-4	CONNECTOR		IC6	BA7743FS	IC		
CN32	PU59513-4R	CONNECTOR		IC7	AN6041	IC, S822/S622		
CN33	PU59513-4R	CONNECTOR, S822/S622		IC8	M5278L05	IC		
CN34	PU59513-4Y	CONNECTOR		IC9	TL082CP	IC, S822/S622		
CN36	PU59513-7	CONNECTOR						
CN37	PU59513-5R	CONNECTOR						
CN38	PU59513-8	CONNECTOR						

#	REF No.	PART No.	PART NAME, DESCRIPTION	#	REF No.	PART No.	PART NAME, DESCRIPTION
Q1	2SC2412K	TRANSISTOR		R44	QRSA08J-303YN	RESISTOR	30kΩ,1/10W
Q4	2SC2412K	TRANSISTOR, S822/S622		R45	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
Q5	2SA1037K	TRANSISTOR, S822/S622		R47	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
Q8	DTC124EK	TRANSISTOR		R48	QRSA08J-473YN	RESISTOR	47kΩ,1/10W
				R49	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
Q11	2SK30A-O	FE TRANSISTOR, S822/S622		R50	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
Q12	2SK30A-O	FE TRANSISTOR, S822/S622		R51	QRSA08J-682YN	RESISTOR, S822/S622	6.8kΩ,1/10W
Q13	DTC124EK	TRANSISTOR, S822/S622		R52	QRSA08J-682YN	RESISTOR	6.8kΩ,1/10W
				R53	QRSA08J-392YN	RESISTOR	3.9kΩ,1/10W
D1	1SS133	DIODE		R54	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W
D2	1SS133	DIODE, S822/S622		R55	QVZ3513-153	V RESISTOR	15kΩ
D3	1SS136	DIODE, S822/S622		R58	QRSA08J-102YN	RESISTOR, S822/S622	1kΩ,1/10W
D4	1SS136	DIODE, S822/S622		R59	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
D5	1SS133	DIODE		R60	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
				R61	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
R1	QRSA08J-432YN	RESISTOR, S822/S622	4.3kΩ,1/10W	R62	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
R1	QRSA08J-103YN	RESISTOR, S522/S525	10kΩ,1/10W	R63	QRSA08J-8R2YN	RESISTOR, S822/S622	8.2Ω,1/10W
R2	QRSA08J-432YN	RESISTOR, S822/S622	4.3kΩ,1/10W	R64	QRSA08J-224YN	RESISTOR, S822/S622	220kΩ,1/10W
R2	QRSA08J-103YN	RESISTOR, S522/S525	10kΩ,1/10W	R67	QRSA08J-102YN	RESISTOR, S822/S622	1kΩ,1/10W
R3	QRSA08J-332YN	RESISTOR, S822/S622	3.3kΩ,1/10W				
R3	QRSA08J-103YN	RESISTOR, S522/S525	10kΩ,1/10W	R75	QRSA08J-912YN	RESISTOR, S822/S622	9.1kΩ,1/10W
R4	QRSA08J-332YN	RESISTOR, S822/S622	3.3kΩ,1/10W	R76	QRSA08J-332YN	RESISTOR, S822/S622	3.3kΩ,1/10W
R4	QRSA08J-103YN	RESISTOR, S522/S525	10kΩ,1/10W	R77	QRSA08J-123YN	RESISTOR, S822/S622	12kΩ,1/10W
R5	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W	R78	QRSA08J-332YN	RESISTOR, S822/S622	3.3kΩ,1/10W
R7	NRVA62D-511N	RESISTOR	510Ω,1/16W	R78	QRSA08J-0R0Y	RESISTOR, S522/S525	0Ω,1/10W
R8	NRVA62D-511N	RESISTOR	510Ω,1/16W	R79	QRSA08J-333YN	RESISTOR, S822/S622	33kΩ,1/10W
R9	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W	R80	QRSA08J-123YN	RESISTOR, S822/S622	12kΩ,1/10W
R10	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W				
R11	QRSA08J-513YN	RESISTOR	51kΩ,1/10W	R81	QRSA08J-102YN	RESISTOR, S822/S622	1kΩ,1/10W
R12	QRSA08J-513YN	RESISTOR	51kΩ,1/10W	R82	QRSA08J-102YN	RESISTOR, S822/S622	1kΩ,1/10W
R13	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W	R83	QRSA08J-561YN	RESISTOR, S822/S622	560Ω,1/10W
R14	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W	R84	QRSA08J-102YN	RESISTOR, S822/S622	1kΩ,1/10W
R15	QVZ3513-473	V RESISTOR	47kΩ	R85	QRSA08J-122YN	RESISTOR	1.2kΩ,1/10W
R16	QVZ3513-473	V RESISTOR	47kΩ	R86	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
R17	QRSA08J-101YN	RESISTOR	100Ω,1/10W	R87	QRSA08J-684YN	RESISTOR, S822/S622	680kΩ,1/10W
R18	QRSA08J-101YN	RESISTOR	100Ω,1/10W	R88	QRSA08J-684YN	RESISTOR, S822/S622	680kΩ,1/10W
				R89	QRSA08J-684YN	RESISTOR, S822/S622	680kΩ,1/10W
R21	QRSA08J-101YN	RESISTOR	100Ω,1/10W	R90	QRSA08J-684YN	RESISTOR, S822/S622	680kΩ,1/10W
R22	QRSA08J-101YN	RESISTOR	100Ω,1/10W				
R23	QRSA08J-822YN	RESISTOR	8.2kΩ,1/10W	R91	QRSA08J-683YN	RESISTOR, S822/S622	68kΩ,1/10W
R24	QRSA08J-822YN	RESISTOR	8.2kΩ,1/10W	R92	QRSA08J-683YN	RESISTOR, S822/S622	68kΩ,1/10W
R25	QRSA08J-103YN	RESISTOR	10kΩ,1/10W				
R26	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C1	QETC1CM-106ZE	E CAPACITOR, S822/S622	10 μF,16V
R27	QRSA08J-123YN	RESISTOR	12kΩ,1/10W	C2	QETC1CM-106ZE	E CAPACITOR, S822/S622	10 μF,16V
R28	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C3	QETC1CM-106ZE	E CAPACITOR	10 μF,16V
R29	QVZ3513-103	V RESISTOR	10kΩ	C4	QETC1CM-106ZE	E CAPACITOR	10 μF,16V
R30	QVZ3513-682	V RESISTOR	6.8kΩ	C5	QCYA1HK-103	CAPACITOR	0.01 μF,50V
				C6	QCYA1HK-103	CAPACITOR	0.01 μF,50V
R33	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	C7	QCYA1HK-103	CAPACITOR	0.01 μF,50V
R34	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	C8	QCYA1HK-103	CAPACITOR	0.01 μF,50V
R35	QRSA08J-273YN	RESISTOR	27kΩ,1/10W	C9	QETC1AM-336ZE	E CAPACITOR	33 μF,10V
R36	QRSA08J-273YN	RESISTOR	27kΩ,1/10W	C10	QETC1AM-336ZE	E CAPACITOR	33 μF,10V
R37	QRSA08J-561YN	RESISTOR	560Ω,1/10W				
R38	QRSA08J-750YN	RESISTOR	75Ω,1/10W	C11	QFN31HJ-473	M CAPACITOR	0.047 μF,50V
R39	QRSA08J-274YN	RESISTOR, S822/S622	270kΩ,1/10W	C12	QFN31HJ-473	M CAPACITOR	0.047 μF,50V
R40	QRSA08J-104YN	RESISTOR	100kΩ,1/10W	C13	QETC1HM-225	E CAPACITOR	2.2 μF,50V
				C14	QETC1HM-225	E CAPACITOR	2.2 μF,50V
R41	QRSA08J-822YN	RESISTOR	8.2kΩ,1/10W	C15	QFN31HJ-333	M CAPACITOR	0.033 μF,50V
R42	QRSA08J-183YN	RESISTOR	18kΩ,1/10W	C16	QFN31HJ-333	M CAPACITOR	0.033 μF,50V
R43	QRSA08J-332YN	RESISTOR	3.3kΩ,1/10W	C17	PU59499	BUS WIRE, S822/S622	

5.10 FRONT PANEL assembly

5.10.1 Cassette panel assembly <MA>



CASSETTE PANEL ASSEMBLY **MA**

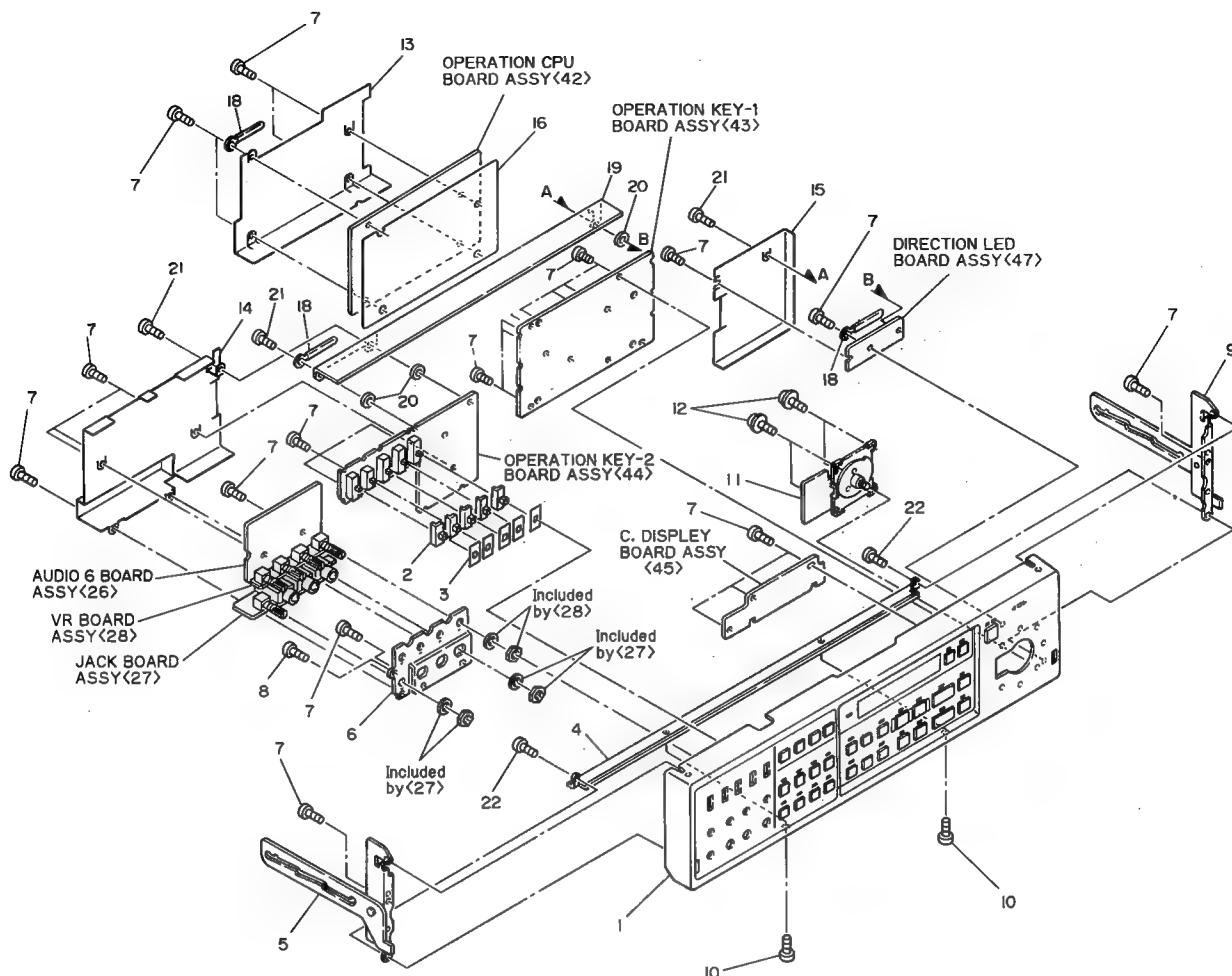
MAMM□□□□

#[△] REF No. PART No. PART NAME, DESCRIPTION

CASSETTE PANEL ASSEMBLY <MA>

1	PRD10229B-02	CASSETTE PANEL ASSY, S822U
1	PRD10229D-02	CASSETTE PANEL ASSY, S622U
1	PRD10229F-02	CASSETTE PANEL ASSY, S522U
1	PRD10229J-02	CASSETTE PANEL ASSY, S525U
2	PRD43427	VR BRACKET
3	SBSF2606Z	SCREW, X15
4	PRD42927A	SLIDE KNOB ASSY
5	PU49485-4	WIRE CLAMP, X3
7	PRD30726	WINDOW, S822U/S622U
7	PRD30726-02	WINDOW, S522U/S525U
8	WNB2600N	WASHER

5.10.2 Operation panel assembly <MB>



OPERATION PANEL ASSEMBLY MB

MB MM □ □ □

#	REF No.	PART No.	PART NAME, DESCRIPTION	#	REF No.	PART No.	PART NAME, DESCRIPTION

OPERATION PANEL ASSEMBLY <MB>							
1	PRD10230A-05	OPERATION PANEL ASSY, S822U		11	PGS20128H-02	SEARCH/JOG CONTROL ASSY, 822U/622U/522U	
1	PRD10259A-06	OPERATION PANEL ASSY, S622U		11	PGS20933A	SEARCH/JOG CONTROL ASSY, S525U	
1	PRD10259E-06	OPERATION PANEL ASSY, S522U		12	DPSP3010Z	SCREW, X4, S822U/S622U/S522U	
1	PRD10259F-06	OPERATION PANEL ASSY, S525U		12	DPSP3016Z	SCREW, X4, S525U	
2	PRD42830	SLIDE KNOB, X5, S822U/S622U		13	PRD30774-01-01	PROTECTOR(A)	
2	PRD42830	SLIDE KNOB, X4, S522U/S525U		14	PRD30775-01-02	PROTECTOR(B), S822U/S622U	
3	PRD43146	KNOB PLATE, X5, S822U/S622U		14	PRD30775-02-03	PROTECTOR(B), S522U/S525U	
3	PRD43146	KNOB PLATE, X4, S522U/S525U		15	PRD43477-01-01	PROTECTOR(C)	
4	PRD20379	OPERATION BRACKET		16	PRD43478	INSULATOR	
5	PRD30732A-01	SIDE BRACKET(L) ASSY		18	PU49485-4	WIRE CLAMP, X3	
6	PRD43428	VR & JACK BRACKET		19	PRD30850	OPERATION BRACKET	
7	SBSF2606Z	SCREW, X28		20	PRD30084	WASHER, X3	
8	LPSP3006Z	ASSY SCREW		21	SDSF2610Z	SCREW, X3	
9	PRD30733A-01	SIDE BRACKET(R) ASSY		22	SDSF2608Z	SCREW, X2	
10	PRD43194	SPECIAL SCREW, X2					

#	REF No.	PART No.	PART NAME, DESCRIPTION	#	REF No.	PART No.	PART NAME, DESCRIPTION	
C17	QETC1AM-227ZE	E CAPACITOR, S822/S625 220 μ F,10V		C74	QEE81AM-107	E CAPACITOR, S822/S622 100 μ F,10V		
C18	PU59499	BUS WIRE, S822/S622		C75	QETC1HM-105ZE	E CAPACITOR 1 μ F,50V		
C18	QETC1AM-227ZE	E CAPACITOR, S822/S625 220 μ F,10V		C76	QETC1HM-105ZE	E CAPACITOR 1 μ F,50V		
C19	QETC1CM-106ZE	E CAPACITOR 10 μ F,16V		C77	QCYA1HK-102	CAPACITOR 0.001 μ F,50V		
C20	QETC1CM-106ZE	E CAPACITOR 10 μ F,16V		C78	QCYA1HK-102	CAPACITOR 0.001 μ F,50V		
				C79	QCTA1CH-121	CAPACITOR 120pF,16V		
C21	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		C80	QCTA1CH-121	CAPACITOR 120pF,16V		
C22	QCYA1HK-103	CAPACITOR 0.01 μ F,50V						
C23	QETC1HM-105ZE	E CAPACITOR 1 μ F,50V		C81	QCTA1CH-101	CAPACITOR, S822/S622 100pF,16V		
C24	QETC1HM-105ZE	E CAPACITOR 1 μ F,50V		C82	QFN31HJ-104	M CAPACITOR, S822/S622 0.1 μ F,50V		
C25	QFN31HJ-103	M CAPACITOR 0.01 μ F,50V		C85	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		
C26	QFN31HJ-103	M CAPACITOR 0.01 μ F,50V		C86	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ F,50V		
C27	QETC0JM-107ZE	E CAPACITOR 100 μ F,6.3V		C87	QEE81CM-476	T. CAPACITOR, S822/S622 47 μ F,16V		
C28	QETC0JM-107ZE	E CAPACITOR 100 μ F,6.3V		C88	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ F,50V		
C29	QCYA1HK-102	CAPACITOR 0.001 μ F,50V						
C30	QCYA1HK-102	CAPACITOR 0.001 μ F,50V		C91	QETC1EM-476ZE	E CAPACITOR, S822/S622 47 μ F,25V		
				C95	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ F,50V		
C31	QFN31HJ-822	M CAPACITOR 0.0082 μ F,50V		C96	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ F,50V		
C32	QFN31HJ-822	M CAPACITOR 0.0082 μ F,50V		C97	QCYA1HK-222	CAPACITOR, S822/S622 0.0022 μ F,50V		
C33	QFN31HJ-104	M CAPACITOR 0.1 μ F,50V		C98	QCYA1HK-222	CAPACITOR, S822/S622 0.0022 μ F,50V		
C34	QFN31HJ-104	M CAPACITOR 0.1 μ F,50V		C99	QCYA1HK-222	CAPACITOR, S822/S622 0.0022 μ F,50V		
C35	QFN31HJ-223	M CAPACITOR 0.022 μ F,50V		C100	QCYA1HK-222	CAPACITOR, S822/S622 0.0022 μ F,50V		
C36	QFN31HJ-223	M CAPACITOR 0.022 μ F,50V						
C37	QCTA1CH-821	CAPACITOR 820pF,16V		C101	QETC1CM-476	E CAPACITOR, S822/S622 47 μ F,16V		
C38	QCTA1CH-821	CAPACITOR 820pF,16V		C102	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ F,50V		
C39	QFN31HJ-392	M CAPACITOR 0.0039 μ F,50V		C103	QCTA1CH-121	CAPACITOR, S822/S622 120pF,16V		
C40	QFN31HJ-392	M CAPACITOR 0.0039 μ F,50V		C104	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ F,50V		
				C105	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ F,50V		
C41	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		C106	QETC1CM-476ZE	E CAPACITOR, S822/S622 47 μ F,16V		
C42	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		C108	QCYA1HK-333	CAPACITOR 0.033 μ F,50V		
C43	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		C109	QCTA1CH-101	CAPACITOR, S822/S622 100pF,16V		
C44	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		C110	QETC1CM-476ZE	E CAPACITOR, S822/S622 47 μ F,16V		
C45	QCYA1HK-103	CAPACITOR 0.01 μ F,50V						
C46	QETC1HM-105ZE	E CAPACITOR 1 μ F,50V		C111	QFN31HJ-104	M CAPACITOR, S822/S622 0.1 μ F,50V		
C47	QCTA1CH-471	CAPACITOR 470pF,16V		C112	QFN31HJ-104	M CAPACITOR, S822/S622 0.1 μ F,50V		
C48	QCTA1CH-561	CAPACITOR 560pF,16V		C113	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		
C49	QCYA1EK-104	CAPACITOR 0.1 μ F,25V		C114	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		
C50	QEE81AM-476	TANTAL CAPACITOR 47 μ F,10V						
C51	QCTA1CH-101	CAPACITOR 100pF,16V		L1	PU30284-1R	COIL 100 μ H		
C52	QCTA1CH-101	CAPACITOR 100pF,16V		L2	PU30284-1R	COIL 100 μ H		
C53	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		L6	PU48530-101K	COIL 100 μ H		
C54	QCYA1EK-473	CAPACITOR 0.047 μ F,25V		L7	PU48530-101K	COIL, S822/S622 100 μ H		
C55	QETC0JM-107ZE	E CAPACITOR 100 μ F,6.3V						
C56	QETC0JM-107ZE	E CAPACITOR 100 μ F,6.3V						
C57	QETC1AM-107ZE	E CAPACITOR 100 μ F,10V		BPF3	PU60396	BAND PASS FILTER, x 2 (BPF3, 4)		
C58	QETC1AM-476	E CAPACITOR 47 μ F,10V						
C59	QETC1EM-337ZE	E CAPACITOR 330 μ F,25V						
C60	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		△	K1	PGZ00354	FERRATE BEADS, x 2 (K1, K2)	
C61	QETC1EM-107ZE	E CAPACITOR 100 μ F,25V		EJ1	PGZ00582	EJECTOR, x 2		
C62	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		STK1	PRD30072-58	STICKER		
C63	QEE81AM-476	TANTAL CAPACITOR 47 μ F,10V						
C64	QCYA1HK-103	CAPACITOR 0.01 μ F,50V						
C65	QCYA1HK-102	CAPACITOR 0.001 μ F,50V						
C66	QCYA1HK-103	CAPACITOR 0.01 μ F,50V		TP1	PU54983	TEST PIN, x 16		
C67	QCYA1HK-103	CAPACITOR 0.01 μ F,50V						
C68	QCYA1HK-103	CAPACITOR 0.01 μ F,50V						
C69	QCYA1HK-103	CAPACITOR 0.01 μ F,50V						
C70	QEE81AM-107	E CAPACITOR 100 μ F,10V		CN1	PGZ00421-64	MALE CONNECTOR		
				CN2	PU58844-6	CONNECTOR		
C71	QCYA1HK-103	CAPACITOR 0.01 μ F,50V						
C72	QCYA1HK-103	CAPACITOR 0.01 μ F,50V						
C73	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ F,50V						

#	△	REF No.	PART No.	PART NAME, DESCRIPTION	#	△	REF No.	PART No.	PART NAME, DESCRIPTION
AV M/ONSC BOARD ASSY <41>									
PWBA		PRK20089E		AV M/ONSC BOARD ASSY	R2		QRD161J-333		RESISTOR 33kΩ,1/6W
IC2		TC74HC4066AP	IC		R3		QRD161J-123		RESISTOR 12kΩ,1/6W
IC3		NJM2233BD	IC		R4		QRD161J-181		RESISTOR 180Ω,1/6W
IC4		M50554-263SP	IC		R5		QRV141F-5600AY	CMF RESISTOR	560Ω,1/4W
IC5		M52684AP	IC		R6		QRV141F-3300AY	CMF RESISTOR	330Ω,1/4W
IC6		NJM2233BD	IC		R7		QRV141F-3300AY	CMF RESISTOR	330Ω,1/4W
IC7		M52684AP	IC		R8		QRV141F-4700AY	CMF RESISTOR	470Ω,1/4W
IC9		UPC319C	IC		R9		QRD161J-182	RESISTOR	1.8kΩ,1/6W
IC10		TC74HC00AP	IC		R10		QRD161J-222	RESISTOR	2.2kΩ,1/6W
IC11		TC4013BP	IC		R11		QRD161J-152	RESISTOR	1.5kΩ,1/6W
IC12		M51957BL	IC		R12		QRD161J-561	RESISTOR	560Ω,1/6W
IC13		UPD75116CW-A03	IC		R13		QRD161J-561	RESISTOR	560Ω,1/6W
IC14		M54519P	IC		R16		QRD161J-102	RESISTOR	1kΩ,1/6W
IC15		M54519P	IC		R17		QRD161J-561	RESISTOR	560Ω,1/6W
IC17		TC74HC00AP	IC		R18		QRD161J-332	RESISTOR	3.3kΩ,1/6W
IC18		M5278D12	IC		R19		QRD161J-472	RESISTOR	4.7kΩ,1/6W
IC19		M5278L05	IC		R20		QRD161J-332	RESISTOR	3.3kΩ,1/6W
IC20		UPC78N05	IC		R21		QRD161J-391	RESISTOR	390Ω,1/6W
Q1		2SC1740S(QRS)	TRANSISTOR		R22		QRD161J-102	RESISTOR	1kΩ,1/6W
Q2		2SA933S(RS)	TRANSISTOR		R23		QRD161J-681	RESISTOR	680Ω,1/6W
Q3		2SA933S(RS)	TRANSISTOR		R24		QRD161J-102	RESISTOR	1kΩ,1/6W
Q4		2SC1740S(QRS)	TRANSISTOR		R25		QRD161J-103	RESISTOR	10kΩ,1/6W
Q5		2SC1740S(QRS)	TRANSISTOR		R26		QRD161J-221	RESISTOR	220Ω,1/6W
Q6		2SC1740S(QRS)	TRANSISTOR		R27		QRD161J-103	RESISTOR	10kΩ,1/6W
Q7		2SC1740S(QRS)	TRANSISTOR		R28		QRD161J-102	RESISTOR	1kΩ,1/6W
Q8		2SC1740S(QRS)	TRANSISTOR		R29		QRD161J-681	RESISTOR	680Ω,1/6W
Q9		2SA933S(RS)	TRANSISTOR		R30		QRD161J-471	RESISTOR	470Ω,1/6W
Q10		2SA933S(RS)	TRANSISTOR		R32		QRD161J-472	RESISTOR	4.7kΩ,1/6W
Q11		2SC1740S(QRS)	TRANSISTOR		R34		QRD161J-122	RESISTOR	1.2kΩ,1/6W
Q12		2SC1740S(QRS)	TRANSISTOR		R35		QRD161J-102	RESISTOR	1kΩ,1/6W
Q13		2SA933S(RS)	TRANSISTOR		R36		QRD161J-102	RESISTOR	1kΩ,1/6W
Q14		2SA933S(RS)	TRANSISTOR		R37		QRD161J-681	RESISTOR	680Ω,1/6W
Q15		2SA933S(RS)	TRANSISTOR		R38		QRD161J-561	RESISTOR	560Ω,1/6W
Q16		2SC1740S(QRS)	TRANSISTOR		R39		QRD161J-393	RESISTOR	39kΩ,1/6W
Q17		2SC1740S(QRS)	TRANSISTOR		R40		QRD161J-152	RESISTOR	1.5kΩ,1/6W
Q18		2SC1740S(QRS)	TRANSISTOR		R41		QRD161J-271	RESISTOR	270Ω,1/6W
Q19		2SC1740S(QRS)	TRANSISTOR		R42		QRD161J-103	RESISTOR	10kΩ,1/6W
Q20		2SC1740S(QRS)	TRANSISTOR		R43		QRD161J-222	RESISTOR	2.2kΩ,1/6W
Q21		2SC1740S(QRS)	TRANSISTOR		R44		QRD161J-223	RESISTOR	22kΩ,1/6W
Q22		2SC1740S(QRS)	TRANSISTOR		R45		QRD161J-273	RESISTOR	27kΩ,1/6W
D1		1SS133	DIODE		R46		QRD161J-222	RESISTOR	2.2kΩ,1/6W
D2		1SS133	DIODE		R47		QRD161J-222	RESISTOR	2.2kΩ,1/6W
D3		1SS133	DIODE		R48		QRD161J-222	RESISTOR	2.2kΩ,1/6W
D5		MA27TB	DIODE		R49		QRD161J-122	RESISTOR	1.2kΩ,1/6W
D6		1SS133	DIODE		R50		QRD161J-122	RESISTOR	1.2kΩ,1/6W
D7		1SS133	DIODE		R51		QRD161J-101	RESISTOR	100Ω,1/6W
D8		1SS133	DIODE		R52		QRD161J-222	RESISTOR	2.2kΩ,1/6W
D9		1SS133	DIODE		R53		QRD161J-183	RESISTOR	18kΩ,1/6W
D10		1SS133	DIODE		R54		QRD161J-472	RESISTOR	4.7kΩ,1/6W
D11		RD7.5EB2	ZENER DIODE		R55		QRD161J-391	RESISTOR	390Ω,1/6W
					R56		QRD161J-473	RESISTOR	47kΩ,1/6W
					R57		QRD161J-0R0	RESISTOR	0Ω,1/6W
					R58		QRD161J-103	RESISTOR	10kΩ,1/6W
					R59		QRD161J-561	RESISTOR	560Ω,1/6W
					R60		QRD161J-561	RESISTOR	560Ω,1/6W
					R61		QRD161J-181	RESISTOR	180Ω,1/6W
					R62		QRD161J-223	RESISTOR	22kΩ,1/6W

#	REF No.	PART No.	PART NAME, DESCRIPTION	#	REF No.	PART No.	PART NAME, DESCRIPTION
	R63	QRD161J-223	RESISTOR 22kΩ,1/6W		R126	QRD161J-181	RESISTOR 180Ω,1/6W
	R64	QRD161J-152	RESISTOR 1.5kΩ,1/6W		R127	QRD161J-473	RESISTOR 47kΩ,1/6W
	R66	QRD161J-152	RESISTOR 1.5kΩ,1/6W		R136	QRD161J-181	RESISTOR 180Ω,1/6W
	R67	QRD161J-393	RESISTOR 39kΩ,1/6W		R137	QRD161J-103	RESISTOR 10kΩ,1/6W
	R68	QRD161J-152	RESISTOR 1.5kΩ,1/6W		R138	QRD161J-103	RESISTOR 10kΩ,1/6W
	R69	QRD161J-271	RESISTOR 270Ω,1/6W		R139	QRD161J-181	RESISTOR 180Ω,1/6W
	R70	QRD161J-103	RESISTOR 10kΩ,1/6W	△	R140	PU52108-2R2	POSITIVE THERMISTOR
	R71	QRD161J-472	RESISTOR 4.7kΩ,1/6W		R141	QRD161J-103	RESISTOR 10kΩ,1/6W
	R72	QRD161J-473	RESISTOR 47kΩ,1/6W		R142	QRD161J-103	RESISTOR 10kΩ,1/6W
	R73	QRD161J-104	RESISTOR 100kΩ,1/6W		R143	QRD161J-154	RESISTOR 150kΩ,1/6W
	R74	QRD161J-222	RESISTOR 2.2kΩ,1/6W		R144	QRD161J-104	RESISTOR 100kΩ,1/6W
	R77	QRD161J-122	RESISTOR 1.2kΩ,1/6W		R1001	QVZ3513-102	V RESISTOR 1kΩ
	R78	QRD161J-123	RESISTOR 12kΩ,1/6W		RA1	EXB-P88103M	NETWORK RESISTOR
	R79	QRD161J-123	RESISTOR 12kΩ,1/6W				
	R80	QRD161J-102	RESISTOR 1kΩ,1/6W				
	R81	QRD161J-333	RESISTOR 33kΩ,1/6W				
	R82	QRD161J-273	RESISTOR 27kΩ,1/6W				
	R83	QRD161J-152	RESISTOR 1.5kΩ,1/6W	C2	QETC1CM-107	E CAPACITOR 100 μF,16V	
	R84	QRD161J-102	RESISTOR 1kΩ,1/6W	C3	QETC1CM-106	E CAPACITOR 10 μF,16V	
	R85	QRD161J-102	RESISTOR 1kΩ,1/6W	C4	QETC1AM-107	E CAPACITOR 100 μF,10V	
	R86	QRD161J-271	RESISTOR 270Ω,1/6W	C6	QCC31CK-104	CAPACITOR 0.1 μF,16V	
	R87	QRD161J-222	RESISTOR 2.2kΩ,1/6W	C7	QETC1AM-107	E CAPACITOR 100 μF,10V	
	R88	QRD161J-103	RESISTOR 10kΩ,1/6W	C8	QETC1AM-107	E CAPACITOR 100 μF,10V	
	R89	QRD161J-222	RESISTOR 2.2kΩ,1/6W	C9	QCC31CK-104	CAPACITOR 0.1 μF,16V	
	R90	QRD161J-271	RESISTOR 270Ω,1/6W				
	R91	QRD161J-222	RESISTOR 2.2kΩ,1/6W	C11	QCS31HJ-220	CAPACITOR 22pF,50V	
	R92	QRD161J-102	RESISTOR 1kΩ,1/6W	C13	QCS31HJ-560	CAPACITOR 56pF,50V	
	R93	QRD161J-821	RESISTOR 820Ω,1/6W	C14	QCS31HJ-150	CAPACITOR 15pF,50V	
	R94	QRD161J-331	RESISTOR 330Ω,1/6W	C15	QETC1AM-107	E CAPACITOR 100 μF,10V	
	R95	QRD161J-681	RESISTOR 680Ω,1/6W	C16	QCF31HP-103	CAPACITOR 0.01 μF,50V	
	R97	QRD161J-182	RESISTOR 1.8kΩ,1/6W	C17	QFN31HJ-222	M CAPACITOR 0.0022 μF,50V	
	R98	QRD161J-102	RESISTOR 1kΩ,1/6W	C18	QETC1HM-105	E CAPACITOR 1 μF,50V	
	R99	QRD161J-473	RESISTOR 47kΩ,1/6W	C20	QCS31HJ-220	CAPACITOR 22pF,50V	
	R100	QRD161J-681	RESISTOR 680Ω,1/6W	C21	QFN31HJ-103	M CAPACITOR 0.01 μF,50V	
				C22	QFN31HJ-152	M CAPACITOR 0.0015 μF,50V	
	R103	QRD161J-104	RESISTOR 100kΩ,1/6W	C23	QETC1EM-475	E CAPACITOR 4.7 μF,25V	
	R104	QRD161J-104	RESISTOR 100kΩ,1/6W	C24	QCS31HJ-390	CAPACITOR 39pF,50V	
	R105	QRD161J-473	RESISTOR 47kΩ,1/6W	C25	QCS31HJ-121	CAPACITOR 120pF,50V	
	R106	QRD161J-183	RESISTOR 18kΩ,1/6W	C26	QETC1CM-106	E CAPACITOR 10 μF,16V	
	R107	QRD161J-103	RESISTOR 10kΩ,1/6W	C27	QETC1HM-474	E CAPACITOR 0.47 μF,50V	
	R108	QRD161J-472	RESISTOR 4.7kΩ,1/6W	C28	QETC1AM-108	E CAPACITOR 1000 μF,10V	
	R109	QRD161J-472	RESISTOR 4.7kΩ,1/6W	C29	QETC1AM-108	E CAPACITOR 1000 μF,10V	
	R110	QRD161J-471	RESISTOR 470Ω,1/6W	C30	QETC1AM-107	E CAPACITOR 100 μF,10V	
	R111	QRD161J-471	RESISTOR 470Ω,1/6W	C31	QETC1AM-107	E CAPACITOR 100 μF,10V	
	R112	QRD161J-471	RESISTOR 470Ω,1/6W	C32	QETC1AM-107	E CAPACITOR 100 μF,10V	
	R113	QRD161J-471	RESISTOR 470Ω,1/6W	C33	QCC31CK-104	CAPACITOR 0.1 μF,16V	
	R114	QRD161J-471	RESISTOR 470Ω,1/6W	C35	QFN31HJ-222	M CAPACITOR 0.0022 μF,50V	
	R115	QRD161J-471	RESISTOR 470Ω,1/6W	C36	QCC31CK-104	CAPACITOR 0.1 μF,16V	
	R116	QRD161J-471	RESISTOR 470Ω,1/6W	C37	QCS31HJ-220	CAPACITOR 22pF,50V	
	R117	QRD161J-471	RESISTOR 470Ω,1/6W	C38	QFN31HJ-103	M CAPACITOR 0.01 μF,50V	
	R118	QRD161J-121	RESISTOR 120Ω,1/6W	C39	QFN31HJ-152	M CAPACITOR 0.0015 μF,50V	
	R119	QRD161J-121	RESISTOR 120Ω,1/6W	C40	QETC1HM-475	E CAPACITOR 4.7 μF,50V	
	R120	QRD161J-121	RESISTOR 120Ω,1/6W				
				C43	QCC31CK-104	CAPACITOR 0.1 μF,16V	
	R121	QRD161J-121	RESISTOR 120Ω,1/6W	C46	QETC1CM-107	E CAPACITOR 100 μF,16V	
	R122	QRD161J-121	RESISTOR 120Ω,1/6W	C47	QETC1AM-107	E CAPACITOR 100 μF,10V	
	R123	QRD161J-121	RESISTOR 120Ω,1/6W	C48	QCS31HJ-101	CAPACITOR 100pF,50V	
	R124	QRD161J-121	RESISTOR 120Ω,1/6W	C49	QCS31HJ-101	CAPACITOR 100pF,50V	
	R125	QRD161J-121	RESISTOR 120Ω,1/6W	C50	QETC1AM-107	E CAPACITOR 100 μF,10V	

#	△ REF No.	PART No.	PART NAME, DESCRIPTION	#	△ REF No.	PART No.	PART NAME, DESCRIPTION
C51		QETC1AM-476	E CAPACITOR	47 μ F,10V	SLD1	PRD30781-02-03	SHIELD PLATE
C52		QETC1HM-474	E CAPACITOR	0.47 μ F,50V	RV1	PU53276	PLASTIC RIVET, × 4
C53		QETC1HM-474	E CAPACITOR	0.47 μ F,50V			
C54		QETC1AM-107	E CAPACITOR	100 μ F,10V			
C56		QCS31HJ-100	CAPACITOR	10pF,50V	TP1	PU54983	TEST PIN, × 20
C58		QETC1HM-104	E CAPACITOR	0.1 μ F,50V			
C59		QETC1CM-476	E CAPACITOR	47 μ F,16V			
C60		QCC31EK-104	CAPACITOR	0.1 μ F,25V	CN1	PGZ00421-64	MALE CONNECTOR
C61		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C62		QETC1CM-107	E CAPACITOR	100 μ F,16V			
C63		QETC1AM-476	E CAPACITOR	47 μ F,10V			
C64		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C65		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C66		QETC1AM-107	E CAPACITOR	100 μ F,10V			
C67		QETC1AM-107	E CAPACITOR	100 μ F,10V			
C68		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C69		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C70		QETC1AM-476	E CAPACITOR	47 μ F,10V			
C72		QETC1HM-105	E CAPACITOR	1 μ F,50V			
C73		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C74		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C75		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C76		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C80		QETC1HM-225	E CAPACITOR	2.2 μ F,50V			
C83		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C84		QETC1AM-107	E CAPACITOR	100 μ F,10V			
C85		QFN31HJ-103	M CAPACITOR	0.01 μ F,50V			
C86		QFN31HJ-103	M CAPACITOR	0.01 μ F,50V			
C88		QCS31HJ-270	CAPACITOR	27pF,50V			
C89		QCS31HJ-270	CAPACITOR	27pF,50V			
C99		QCC31CK-104	CAPACITOR	0.1 μ F,16V			
C100		QCS31HJ-180	CAPACITOR	18pF,50V			
C101		PU57672-200	TRIMMER CAPACITOR	20pF			
C102		PU57672-300	TRIMMER CAPACITOR	30pF			
C105		QCF31HP-103	CAPACITOR	0.01 μ F,50V			
C107		QCS31HJ-271	CAPACITOR	270pF,50V			
C108		QCS31HJ-680	CAPACITOR	68pF,50V			
C109		QETC1CM-107	E CAPACITOR	100 μ F,16V			
L1		PU48530-220J	COIL, × 3 (L1, L5, L6)	22 μ H			
L2		PU48530-471J	COIL	470 μ H			
L3		PU48530-221J	COIL	220 μ H			
△	X1	PGZ00898	CRYSTAL RESONATOR				
△	X2	PGZ00937	CERAMIC FILTER				
△	X3	PGZ00937	CERAMIC FILTER				
△	X5	PU60784	RESONATOR				
△	K1	PGZ00354	FERRATE BEADS, × 3				
EJ1		PGZ00582	EJECTOR, × 2				
STK1		PRD30072-57	STICKER				

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